AIWA®

CP-77
X-77
S-740

SERVICE MANUAL

STEREO SYSTEM

BASIC TAPE MECHANISM : TN−1800 • TYPE. E, Z (CP−77) K (X−77/S−740)

SYSTEM	CASSEIVER		TURNTABLE		SPEAKER		REMOTE−CON	
	CX−77	CX−740	PX−SE77	PX−SE740	SX−77	SX−740	RC−T77A	RC−T740
CP−77	●		●				●	
X−77	●		●		●		●	
S−740		●		●		●		●

◆ As to the service information of PX−SE77/SE740 (Turntable system), see the individual service manual of PX−SE77/E77 and PX−SE740。

AIWA Co., Ltd. Tokyo Japan

Printed in Japan

SPECIFICATIONS

CX-77, CX-740

<Common>

Power requirements	CX-77E, Z 220 V 50Hz CX-77K, CX-740 240 V 50Hz
Power consumption	220 W (System total 230 W)
Dimensions	360(W) x 333(H) x 331(D) mm
Weight	8.5 kg

<Amplifier section>

Power output	40 W + 40 W (6 ohms, T.H.D. 1%, 1kHz)
Power bandwidth (IHF)	30 Hz to 50 kHz
Signal-to-noise ratio	85 dB
Output terminals	
Speakers	6 to 16 ohms
HEADPHONES	8 ohms
Input terminal (Senstivity/impedance)	
VCR/AUX	150 mV/47 kohms

<FM section>

Frequency range	FM: 87.5 MHz to 108 MHz
Usable sensitivity(IHF)	3.1 μV (75 ohms) 15.2 dBf
Alternate channel selectivity	52 dB (±400 kHz)
Signal-to-noise ratio	77 dB (MONO)
Image response ratio	45 dB
Frequency response	40 Hz to 13 kHz (+0.5, -3 dB)
Stereo separation	35 dB at 1 kHz
Antenna	75 ohms (unbalanced)

<AM section>

Frequency range	AM: 525 kHz to 1,605 kHz
AM sensitivity	400 μV/m
Selectivity	25 dB
Signal-to-noise ratio	50 dB (100 dB input)
Antenna	Loop antenna

<LW section>

Frequency range	LW: 150 kHz to 285 kHz
Sensitivity	1000 μV/m
Antenna	Loop antenna

<Deck section>

Track format	4 tracks, 2 channels
Frequency response	METAL tape: 40-16,000 Hz CrO2 tape: 40-15,000 Hz NORMAL tape: 40-15,000 Hz
Signal-to-noise ratio	60 dB (DOLBY NR ON)
Wow and flutter	0.13% (WRMS)
Tape speed	4.8 cm/sec. (1-7/8 ips), 9.5 cm/sec. (Double speed)
Rewind time	120 sec. (C-60)
Fast forward time	120 sec. (C-60)
Recording system	AC bias
Erase system	AC erase
Motor	DC Servomotor x 2
Heads	Playback head x 1 (Deck 1) Record/playback head x 1 (Deck 2) Erase head x 1 (Deck 2)

SX-77, SX-740

Cabinet type:	Bass reflex
Speaker:	220 mm cone type woofer 50 mm cone type tweeter 40 mm ceramic type tweeter
Frequency response:	45 to 20,000 Hz
Impedance:	6 ohms
Output sound pressure level:	90 dB/W/m
Music power:	60 W
Dimensions:	280(W) x 461(H) x 180(D) mm
Weight:	4.1 kg

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- Under license from BBE Sound, Inc.

ELECTRICAL MAIN PARTS LIST

REF.NO.	PART NO.	DESCRIPTION
	=== IC ===	
	87-001-443-010	IC,ASP8801
	87-001-440-019	IC,BA15218N
	87-020-981-019	IC,CX1102P
	87-001-347-019	IC,HD14051BP
	87-001-198-019	IC,HD14066BP
	87-020-566-019	IC,LA1265
	S6-804-060-020	IC,LB9050A
	81-653-646-010	IC,LC6538D-3934
	87-001-376-019	IC,LC7218
	87-020-758-019	IC,NJM2068SD
	87-001-389-010	IC,SBX1483-55
	87-001-582-019	IC,STK4152-2
	87-020-446-019	IC,TA7343AP
	87-001-476-019	IC,TC9154AP
	=== TRANSISTOR ===	
	89-501-615-019	FET,2SK161GR
	89-502-415-019	FET,2SK241GR
	89-502-465-019	FET,2SK246(GR)
	89-502-464-019	FET,2SK246Y
	87-026-165-019	FET,3SK73GR(Z)
	87-026-463-019	TRANSISTOR,2SA933S,SR
	89-109-521-019	TRANSISTOR,2SA952K
	89-109-705-019	TRANSISTOR,2SA970GR
	89-110-155-019	TRANSISTOR,2SA1015(GR)
	89-112-965-019	TRANSISTOR,2SA1296GR
	89-309-456-019	TRANSISTOR,2SC945LP
	87-026-462-019	TRANSISTOR,2SC1740S,SR
	89-318-154-019	TRANSISTOR,2SC1815(Y)
	89-318-155-019	TRANSISTOR,2SC1815(GR)
	89-319-233-019	TRANSISTOR,2SC1923(O)
	89-320-011-019	TRANSISTOR,2SC2001K
	89-331-130-019	TRANSISTOR,2SC3113A,B
	89-332-665-019	TRANSISTOR,2SC3266GR
	89-417-650-019	TRANSISTOR,2SD1765
	S6-804-050-040	TRANSISTOR,ESA1266
	=== DIODE ===	
	87-001-559-019	DIODE,1SS131
	87-020-691-019	DIODE,1SS132
	87-020-465-019	DIODE,1SS133
	87-020-144-019	DIODE,DBA40C(TS)
	87-020-123-019	DIODE,DS446
	82-596-799-019	DIODE,1N4002
	87-027-346-019	DIODE,ZENER HZ11A2L
	87-027-686-019	DIODE,ZENER HZ12A1
	87-027-391-019	DIODE,ZENER HZ36-2
	87-027-301-019	DIODE,ZENER HZ3A1
	87-027-286-019	DIODE,ZENER HZ5C1
	87-027-475-019	DIODE,ZENER HZ6B1L
	87-027-649-019	DIODE,ZENER HZ7A2
	=== MAIN CIRCUIT BOARD SECTION ===	
⚠	★87-033-147-019	FUSE CLAMP
BPF731	82-794-697-019	FILTER ANTI BIRDIE(Z)
BPF831	87-030-105-010	FILTER BPMB 6A(Z)
C101	★81-653-681-019	CAP,ELECT 4700-42
C102	★81-653-681-019	CAP,ELECT 4700-42
C103	★87-010-404-019	CAP,ELECT 4.7-50 SME
C109	★87-010-405-019	CAP,ELECT 10-50 SME
C110	★87-010-408-019	CAP,ELECT 47-50(E,Z)
C110	★87-010-247-019	CAP,ELECT 100-50(K,740K)

REF.NO.	PART NO.	DESCRIPTION
C111	★87-010-406-019	CAP,ELECT 22-50 SME
C112	★87-010-381-019	CAP,ELECT 330-16(E,Z)
C112	★87-010-247-019	CAP,ELECT 100-50(K,740K)
C113	★87-010-247-019	CAP,ELECT 100-50 SME
C114	★87-010-247-019	CAP,ELECT 100-50 SME
C120	★87-010-401-019	CAP,ELECT 1-50
C121	★87-010-390-019	CAP,ELECT 3300-25 SME
C122	★87-010-044-019	CAP,ELECT 47-50
C123	★87-010-381-019	CAP,ELECT 330-16 SME
C124	★87-010-381-019	CAP,ELECT 330-16 SME
C125	★87-010-381-019	CAP,ELECT 330-16 SME
C126	★87-010-263-019	CAP,ELECT 100-10
C127	★87-010-371-019	CAP,ELECT 470-6.3
C128	★87-010-263-019	CAP,ELECT 100-10
C130	★87-018-134-019	CAP,CERA-SOL SS 0.01
C141	★87-010-374-019	CAP,ELECT 47-10
C171	★87-010-405-019	CAP,ELECT 10-50 SME
C172	★87-010-405-019	CAP,ELECT 10-50 SME
C191	★87-010-401-019	CAP,ELECT 1-50
C192	★87-010-401-019	CAP,ELECT 1-50
C193	★87-010-404-019	CAP,ELECT 4.7-50 SME
C194	★87-010-404-019	CAP,ELECT 4.7-50 SME
C195	★87-018-106-019	CAP,CERA-SOL SS 15P SL
C196	★87-018-106-019	CAP,CERA-SOL SS 15P SL
C197	★87-018-119-019	CAP,CERA-SOL SS 100P
C198	★87-018-119-019	CAP,CERA-SOL SS 100P
C199	★87-010-221-019	CAP,ELECT 470-10
C205	★87-010-401-019	CAP,ELECT 1-50
C206	★87-010-401-019	CAP,ELECT 1-50
C207	★87-010-405-019	CAP,ELECT 10-50 SME
C208	★87-010-405-019	CAP,ELECT 10-50 SME
C211	★87-010-037-019	CAP,ELECT 10-50
C212	★87-010-546-019	CAP,ELECT 0.33-50 SME
C231	★87-015-404-019	CAP,ELECT 4.7-50 SME
C232	★87-015-404-019	CAP,ELECT 4.7-50 SME
C233	★87-018-131-019	CAP,CERA-SOL SS 1000P
C234	★87-018-131-019	CAP,CERA-SOL SS 1000P
C235	★87-010-037-019	CAP,ELECT 10-50
C236	★87-010-037-019	CAP,ELECT 10-50
C237	★87-010-545-019	CAP,ELECT 0.22-50
C238	★87-010-545-019	CAP,ELECT 0.22-50
C239	★87-010-044-019	CAP,ELECT 47-50
C240	★87-010-044-019	CAP,ELECT 47-50
C241	★87-010-047-019	CAP,ELECT 100-50 SME
C261	★87-018-134-019	CAP,CERA-SOL SS 0.01(Z)
C262	★87-018-134-019	CAP,CERA-SOL SS 0.01(Z)
C263	★87-018-134-019	CAP,CERA-SOL SS 0.01(Z)
C265	★87-018-045-019	CAP,CERA-SOL S 2200P(Z)
C266	★87-018-045-019	CAP,CERA-SOL S 2200P(Z)
C267	★87-018-134-019	CAP,CERA-SOL SS 0.01(Z)
C268	★87-018-134-019	CAP,CERA-SOL SS 0.01(Z)
C301	★87-018-115-019	CAP,CERA-SOL SS 47P
C302	★87-018-115-019	CAP,CERA-SOL SS 47P
C303	★87-018-122-019	CAP,CERA-SOL SS 180P
C304	★87-018-122-019	CAP,CERA-SOL SS 180P
C307	★87-010-400-019	CAP,ELECT 0.47-50 SME
C308	★87-010-400-019	CAP,ELECT 0.47-50 SME
C309	★87-018-134-019	CAP,CERA-SOL SS 0.01
C310	★87-018-134-019	CAP,CERA-SOL SS 0.01
C351	★87-018-121-019	CAP,CERA-SOL SS 150P
C352	★87-018-121-019	CAP,CERA-SOL SS 150P
C353	★87-018-122-019	CAP,CERA-SOL SS 180P
C354	★87-018-122-019	CAP,CERA-SOL SS 180P
C355	★87-018-115-019	CAP,CERA-SOL SS 47P

REF.NO.	PART NO.	DESCRIPTION
C356	★87-018-115-019	CAP,CERA-SOL SS 47P
C359	★87-010-400-019	CAP,ELECT 0.47-50 SME
C360	★87-010-400-019	CAP,ELECT 0.47-50 SME
C361	★87-018-134-019	CAP,CERA-SOL SS 0.01
C362	★87-018-134-019	CAP,CERA-SOL SS 0.01
C401	★87-010-401-019	CAP,ELECT 1-50
C402	★87-010-401-019	CAP,ELECT 1-50
C403	★87-018-133-019	CAP,CERA-SOL SS 4700P
C404	★87-018-133-019	CAP,CERA-SOL SS 4700P
C405	★87-010-401-019	CAP,ELECT 1-50
C406	★87-010-401-019	CAP,ELECT 1-50
C407	★87-018-130-019	CAP,CERA-SOL 820P
C408	★87-018-130-019	CAP,CERA-SOL 820P
C409	★87-010-256-019	CAP,ELECT 0.68-50
C410	★87-010-256-019	CAP,ELECT 0.68-50
C411	★87-010-401-019	CAP,ELECT 1-50
C412	★87-010-401-019	CAP,ELECT 1-50
C413	★87-010-371-019	CAP,ELECT 470-6.3 SME
C414	★87-010-384-019	CAP,ELECT 100-25
C415	★87-018-134-019	CAP,CERA-SOL SS 0.01
C451	★87-018-123-019	CAP,CERA-SOL SS 220P
C452	★87-018-123-019	CAP,CERA-SOL SS 220P
C453	★87-018-131-019	CAP,CERA-SOL SS 1000P
C456	★87-010-406-019	CAP,ELEGT 22-50
C464	★87-010-260-019	CAP,ELECT 47-25
C501	★87-010-402-019	CAP,ELECT 2.2-50
C502	★87-010-402-019	CAP,ELECT 2.2-50
C503	★87-018-045-019	CAP,CERA-SOL S 2200P
C504	★87-018-045-019	CAP,CERA-SOL S 2200P
C513	★87-010-401-019	CAP,ELECT 1-50
C514	★87-010-401-019	CAP,ELECT 1-50
C515	★87-018-121-019	CAP,CERA-SOL SS 150P
C516	★87-018-121-019	CAP,CERA-SOL SS 150P
C604	★87-010-404-019	CAP,ELECT 4.7-50 SME
C605	★87-018-134-019	CAP,CERA-SOL SS 0.01
C606	★87-010-404-019	CAP,ELECT 4.7-50 SME
C607	★87-018-106-019	CAP,CERA-SOL SS 15P SL
C608	★87-010-248-019	CAP,ELECT 220-10
C609	★87-018-134-019	CAP,CERA-SOL SS 0.01
C610	★87-018-134-019	CAP,CERA-SOL SS 0.01
C611	★87-010-374-019	CAP,ELECT 47-10
C621	★87-018-199-019	CAP,CERA-SOL SS 3300P
C622	★87-018-199-019	CAP,CERA-SOL SS 3300P
C623	★87-018-195-019	CAP,CERA-SOL SS 1200P
C624	★87-018-195-019	CAP,CERA-SOL SS 1200P
C625	★87-010-403-019	CAP,ELECT 3.3-50 SME
C626	★87-010-403-019	CAP,ELECT 3.3-50 SME
C633	★87-010-221-019	CAP,ELECT 470-10
C721	★87-010-402-019	CAP,ELECT 2.2-50
C722	★87-010-402-019	CAP,ELECT 2.2-50
C723	★87-010-405-019	CAP,ELECT 10-50
C724	★87-014-057-019	CAP,PP 1000P
C725	★87-010-401-019	CAP,ELECT 1-50
C726	★87-010-403-019	CAP,ELECT 3.3-50 SME
C727	★87-010-236-019	CAP,ELECT 1000-10
C728	★87-010-402-019	CAP,ELECT 2.2-50(Z)
C729	★87-010-402-019	CAP,ELECT 2.2-50(Z)
C741	★87-010-402-019	CAP,ELECT 2.2-50
C742	★87-018-125-019	CAP,CERA-SOL SS 330P
C743	★87-010-382-019	CAP,ELECT 22-25 SME
C744	★87-018-134-019	CAP,CERA-SOL SS 0.01
C745	★87-018-134-019	CAP,CERA-SOL SS 0.01
C746	★87-010-401-019	CAP,ELECT 1-50
C747	★87-018-134-019	CAP,CERA-SOL SS 0.01
C748	★87-010-404-019	CAP,ELECT 4.7-50 SME
C749	★87-010-405-019	CAP,ELECT 10-50 SME
C750	★87-010-544-019	CAP,ELECT 0.1-50
C751	★87-010-403-019	CAP,ELECT 3.3-50 SME
C752	★87-018-134-019	CAP,CERA-SOL SS 0.01
C754	★87-010-260-019	CAP,ELECT 47-25
C755	★87-010-401-019	CAP,ELECT 1-50
C802	★87-018-102-019	CAP,CERA-SOL SS 6.8P(E,K,740K)
C802	★87-018-105-019	CAP,CERA-SOL SS 12P(Z)
C804	★87-018-102-019	CAP,CERA-SOL SS 6.8P(E,K,740K)
C805	★87-018-098-019	CAP,CERA-SOL SS 3.3P(E,K,740K)
C805	★87-018-097-019	CAP,CERA-SOL SS 2.2P(Z)
C806	★87-018-096-019	CAP,CERA-SOL SS 1P
C807	★87-018-100-019	CAP,CERA-SOL 4.7P(E,K,740K)
C807	★87-018-104-019	CAP,CERA-SOL SS 10P(Z)
C808	★87-018-119-019	CAP,CERA-SOL SS 100P
C809	★87-018-134-019	CAP,CERA-SOL SS 0.01
C810	★87-018-134-019	CAP,CERA-SOL SS 0.01
C811	★87-018-116-019	CAP,CERA-SOL SS 56P
C812	★87-018-107-019	CAP,CERA-SOL SS 18P
C814	★87-018-134-019	CAP,CERA-SOL SS 0.01
C815	★87-010-401-019	CAP,ELECT 1-50
C816	★87-018-134-019	CAP,CERA-SOL SS 0.01
C817	★87-018-209-019	CAP,CERA-SOL 0.1
C818	★87-018-134-019	CAP,CERA-SOL SS 0.01
C831	★87-018-103-019	CAP,CERA-SOL SS 8.2P(E,K,740K)
C831	★87-018-105-019	CAP,CERA-SOL 12P(Z)
C832	★87-018-100-019	CAP,CERA-SOL 4.7P(Z)
C833	★87-018-134-019	CAP,CERA-SOL SS 0.01(Z)
C834	★87-018-105-019	CAP,CERA-SOL 12P(Z)
C941	★87-018-134-019	CAP,CERA-SOL SS 0.01
C942	★87-018-121-019	CAP,CERA-SOL SS 150P
C943	★87-014-047-019	CAP,PP 390P
C944	★87-018-109-019	CAP,CERA-SOL 22P
C962	★87-010-405-019	CAP,ELECT 10-50
C963	★87-014-051-019	CAP,PP 560P
C964	★87-018-107-019	CAP,CERA-SOL SS 18P
C971	★87-018-134-019	CAP,CERA-SOL SS 0.01
C983	★87-010-401-019	CAP,ELECT 1-50
C985	★87-018-134-019	CAP,CERA-SOL SS 0.01
C990	★87-018-134-019	CAP,CERA-SOL SS 0.01
C991	★87-010-374-019	CAP,ELECT 47-10
CF741	★82-794-670-019	BFU 450C4N
CF971	★87-008-261-019	FILTER SFE10.7MA5-A
CF972	★87-008-261-019	FILTER SFE10.7MA5-A
CF973	87-799-621-019	FILTER,MS2-A(Z)
D801	★87-027-900-019	DIODE,VARICAP 1SV147
D802	★87-027-900-019	DIODE,VARICAP 1SV147
D803	★87-027-900-019	DIODE,VARICAP 1SV147
D804	★87-027-900-019	DIODE,VARICAP 1SV147(Z)
D981	★81-754-634-019	DIODE,VALICAP KV1260
⚠F2	87-035-366-018	FUSE T2.5A
J150	87-049-855-019	JACK 6.3-W/S(PHONES)
J151	★81-584-634-019	JACK ASSY 4P(VCR/AUX,PHONO)
J152	87-009-045-119	CONN 10P25XH(CD)
J153	87-049-862-019	JACK ASSY 2P(SURROUND SPEAKERS)
J154	★87-033-199-019	TERMINAL,SP-4P II(SPEAKERS)
J902	★81-631-646-019	ANT TERMIMAL 2P PAL(ANTENNA)
J903	87-754-629-019	CONNECTOR 2P(MW/LW LOOP)(E,K,740K)
L201	87-003-366-019	COIL 1UH(Z)
L202	87-003-366-019	COIL 1UH(Z)
L451	★82-794-661-010	COIL OSC BIAS
L501	★87-003-131-019	MICRO INDUCTOR 10MMH
L502	★87-003-131-019	MICRO INDUCTOR 10MMH

REF.NO.	PART NO.	DESCRIPTION
L503	★82-231-622-010	COIL 22MMH
L504	★82-231-622-010	COIL 22MMH
L601	★81-631-643-019	COIL 1 POLE MPX
L602	★81-631-643-019	COIL 1 POLE MPX
L603	★87-005-151-019	COIL 2.2UH
L604	★87-005-151-019	COIL 2.2UH(Z)
L741	★81-631-611-019	COIL QUAD (SINGLE)
L742	★81-701-642-019	CFLZ-450A
L801	★81-794-716-019	COIL ANT 3/4T
L802	★81-794-717-019	COIL ANT 2-3/4 SPACE
L803	★82-791-627-019	FM ANT 2
L804	★82-702-638-019	COIL FM DIA 6
L805	★87-005-151-019	COIL 2.2UH
L806	★82-794-683-019	IFT FM
L807	★82-702-621-019	COIL FM OSC(7K)
L808	★87-005-151-019	COIL 2.2UH(Z)
L831	★87-006-175-010	COIL FM(4GANG)(Z)
L941	87-006-167-119	COIL ANT LW(9M-2)
L942	82-794-688-019	COIL OSC LW
L981	★87-006-162-019	COIL OSC MW(9M)
L982	★87-006-166-019	COIL ANT MW(9M-2)
R106	★87-022-050-010	RES,METAL 0.22-1W J
R107	★87-022-050-010	RES,METAL 0.22-1W J
⚠R165	87-029-126-019	RES,FUSE 1-1W
⚠R166	87-029-126-019	RES,FUSE 1-1W
RY101	87-045-285-010	RELAY VB12MP
SFR301	★87-021-738-019	SFR 1K
SFR302	★87-021-738-019	SFR 1K
SFR351	★87-021-738-019	SFR 1K
SFR352	★87-021-738-019	SFR 1K
SFR451	★87-021-745-019	SFR 47KB
SFR452	★87-021-745-019	SFR 47KB
SFR501	★87-021-741-019	SFR 4.7K
SFR502	★87-021-741-019	SFR 4.7K
SFR721	★87-021-741-019	SFR 4.7K
TC601	★87-011-131-019	TRIMMER 30P
TC801	★87-011-155-019	TRIMMER CERAMIC 10P
TC802	★87-011-155-019	TRIMMER CERAMIC 10P
TC803	★87-011-155-019	TRIMMER CERAMIC 10P(Z)
TC941	★87-011-164-019	TRIMMER CERAMIC 30P
TC961	★87-011-155-019	TRIMMER CERAMIC 10P
VR151	81-794-644-019	VOLUME 50KA(VCR/AUX INPUT LEVEL)
X601	★87-030-163-019	CRYSTAL 7.2MHZ(NDK)

=== FRONT CIRCUIT BOARD SECTION ===

C1	★87-018-131-019	CAP,CERA-SOL SS 1000P
C2	★87-018-131-019	CAP,CERA-SOL SS 1000P
C3	★87-018-131-019	CAP,CERA-SOL SS 1000P
C4	★87-018-134-019	CAP,CERA-SOL SS 0.01
C5	★87-018-134-019	CAP,CERA-SOL SS 0.01
C6	★87-018-134-019	CAP,CERA-SOL SS 0.01
C7	★87-018-134-019	CAP,CERA-SOL SS 0.01
C8	★87-010-381-019	CAP,ELECT 330-16 SME
C9	★87-018-209-019	CAP,CERA-SOL 0.1
C101	★87-010-381-019	CAP,ELECT 330-16 SME
C102	★87-018-209-019	CAP,CERA-SOL 0.1
C103	★87-010-071-019	CAP,ELECT 1-50 SRE
C104	★87-015-689-019	CAP,ELECT 10-35 SRA
C105	★87-015-695-019	CAP,ELECT 1-50 SRA
C106	★87-018-131-019	CAP,CERA-SOL SS 1000P
C107	★87-018-122-019	CAP,CERA-SOL SS 180P
C108	★87-018-131-019	CAP,CERA-SOL SS 1000P
C109	★87-018-209-019	CAP,CERA-SOL 0.1
C110	★87-018-209-019	CAP,CERA-SOL 0.1
C111	★87-018-209-019	CAP,CERA-SOL 0.1
C112	★87-010-247-019	CAP,ELECT 100-50 SME
C113	★87-010-401-019	CAP,ELECT 1-50
C201	★87-018-127-019	CAP,CERA-SOL SS 470P
C202	★87-018-127-019	CAP,CERA-SOL SS 470P
C203	★87-018-195-019	CAP,CERA-SOL SS 1200P
C204	★87-018-195-019	CAP,CERA-SOL SS 1200P
C205	★87-018-133-019	CAP,CERA-SOL SS 4700P
C206	★87-018-133-019	CAP,CERA-SOL SS 4700P
C207	★87-018-134-019	CAP,CERA-SOL SS 0.01
C208	★87-018-134-019	CAP,CERA-SOL SS 0.01
C209	★87-018-134-019	CAP,CERA-SOL SS 0.01
C210	★87-018-134-019	CAP,CERA-SOL SS 0.01
C211	★87-010-068-019	CAP,ELECT 0.22-50 SRE
C212	★87-010-068-019	CAP,ELECT 0.22-50 SRE
C213	★87-010-068-019	CAP,ELECT 0.22-50 SRE
C214	★87-010-068-019	CAP,ELECT 0.22-50 SRE
C215	★87-010-068-019	CAP,ELECT 0.22-50 SRE
C216	★87-010-071-019	CAP,ELECT 1-50 SRE
C217	★87-018-209-019	CAP,CERA-SOL 0.1
C315	★87-018-133-019	CAP,CERA-SOL SS 4700P
C316	★87-018-133-019	CAP,CERA-SOL SS 4700P
C317	★87-015-695-019	CAP,ELECT 1-50 SRA
C318	★87-015-695-019	CAP,ELECT 1-50 SRA
C319	★87-015-695-019	CAP,ELECT 1-50 SRA
C320	★87-015-695-019	CAP,ELECT 1-50 SRA
C321	★87-018-119-019	CAP,CERA-SOL SS 100P
C322	★87-018-119-019	CAP,CERA-SOL SS 100P
C323	★87-018-119-019	CAP,CERA-SOL SS 100P
C324	★87-018-119-019	CAP,CERA-SOL SS 100P
C351	★87-010-406-019	CAP,ELECT 22-50
C352	★87-015-690-019	CAP,ELECT 22-35 SRA
C401	★87-010-401-019	CAP,ELECT 1-50
C402	★87-010-401-019	CAP,ELECT 1-50
C403	★87-010-401-019	CAP,ELECT 1-50
C404	★87-010-401-019	CAP,ELECT 1-50
C405	★87-010-401-019	CAP,ELECT 1-50
C406	★87-010-401-019	CAP,ELECT 1-50
C407	★87-018-123-019	CAP,CERA-SOL SS 220P
C408	★87-018-123-019	CAP,CERA-SOL SS 220P
C415	★87-015-692-019	CAP,ELECT 0.22-50
C416	★87-015-692-019	CAP,ELECT 0.22-50
C417	★87-018-109-019	CAP,CERA-SOL 22P-50V
C418	★87-018-109-019	CAP,CERA-SOL 22P-50V
C419	★87-010-401-019	CAP,ELECT 1-50
C420	★87-010-401-019	CAP,ELECT 1-50
C421	★87-018-134-019	CAP,CERA-SOL SS 0.01
C422	★87-018-134-019	CAP,CERA-SOL SS 0.01
C423	★87-010-248-019	CAP,ELECT 220-10
C425	★87-015-698-019	CAP,ELECT 4.7-50 SRA
C426	★87-015-698-019	CAP,ELECT 4.7-50 SRA
C431	★87-012-105-019	CAP,CERA-SOL 0.022-16V
C432	★87-012-105-019	CAP,CERA-SOL 0.022-16V
C433	★87-015-695-019	CAP,ELECT 1-50 SRA
C434	★87-015-695-019	CAP,ELECT 1-50 SRA
C435	★87-010-401-019	CAP,ELECT 1-50
C436	★87-010-401-019	CAP,ELECT 1-50
C439	★87-018-131-019	CAP,CERA-SOL SS 1000P
C440	★87-018-131-019	CAP,CERA-SOL SS 1000P
C451	★87-010-381-019	CAP,ELECT 330-16 SME
C501	★87-015-695-019	CAP,ELECT 1-50 SRA
FL101	81-653-631-010	FL FV-296G(TUNER/TIMER DISPLAY)
FL201	81-653-632-010	FL FV-297G(5BAND SPE.ANA.)
L101	★81-653-642-010	COIL CLK LC6538D-3.9

REF.NO.	PART NO.	DESCRIPTION
LED1	87-001-124-019	LED SLZ 381C(VOL.UP)
LED2	87-001-124-019	LED SLZ 381C(TUNER)
LED3	87-001-124-019	LED SLZ 381C(PHONO)
LED4	87-001-123-019	LED SLZ 981C-02TI(REM.BAL.LEFT)
LED5	87-001-123-019	LED SLZ 981C-02TI(12P VOL.INDI.)
LED6	87-001-123-019	LED SLZ 981C-02TI(12P VOL.INDI.)
LED7	87-001-123-019	LED SLZ 981C-02TI(12P VOL.INDI.)
LED8	87-001-124-019	LED SLZ 381C(VOL.DOWN)
LED9	87-001-294-019	LED SLZ 481C-02(PAUSE,D2)
LED10	87-001-124-019	LED SLZ 381C(VCR/AUX)
LED11	87-001-123-019	LED SLZ 981C-02TI(REM.BAL.RIGHT)
LED12	87-001-123-019	LED SLZ 981C-02TI(12P VOL.INDI.)
LED13	87-001-123-019	LED SLZ 981C-02TI(12P VOL.INDI.)
LED14	87-001-123-019	LED SLZ 981C-02TI(12P VOL.INDI.)
LED15	87-001-124-019	LED SLZ 381C(PLAY,D1)
LED16	87-001-124-019	LED SLZ 381C(DIRECT,D2)
LED17	87-001-124-019	LED SLZ 381C(CD)
LED18	87-001-123-019	LED SLZ 981C-02TI(SYNC)
LED19	87-001-123-019	LED SLZ 981C-02TI(12P VOL.INDI.)
LED20	87-001-123-019	LED SLZ 981C-02TI(12P VOL.INDI.)
LED21	87-001-123-019	LED SLZ 981C-02TI(12P VOL.INDI.)
LED23	87-001-124-019	LED SLZ 381C(DIRECT,D1)
LED24	87-001-124-019	LED SLZ 381C(TAPE)
LED25	87-001-123-019	LED SLZ 981C-02TI(REC,D2)
LED26	87-001-123-019	LED SLZ 981C-02TI(12P VOL.INDI.)
LED27	87-001-123-019	LED SLZ 981C-02TI(12P VOL.INDI.)
LED28	87-001-123-019	LED SLZ 981C-02TI(12P VOL.INDI.)
LED101	87-001-124-019	LED SLZ 381C(DSL)
LED102	87-001-124-019	LED SLZ 381C(BBE)
LED103	87-001-124-019	LED SLZ 381C(BBE)
⚠R106	87-029-023-019	RES,FUSE 47-1/4W
S1	87-036-142-010	TACT SW(REWIND,D1)
S2	87-036-142-010	TACT SW(F.FWD,D1)
S3	87-036-142-010	TACT SW(PLAY,D1)
S4	87-036-125-010	TACT SW(STOP,D1)
S5	87-036-142-010	TACT SW(REWIND,D2)
S6	87-036-142-010	TACT SW(F.FWD,D2)
S7	87-036-142-010	TACT SW(PLAY,D2)
S8	87-036-142-010	TACT SW(STOP,D2)
S9	87-036-142-010	TACT SW(REC MUTE,D2)
S10	87-036-125-010	TACT SW(PAUSE,D1)
S11	87-036-142-010	TACT SW(REC,D2)
S12	87-036-142-010	TACT SW(CD REC)
S13	87-036-142-010	TACT SW(VOLUME UP)
S14	87-036-142-010	TACT SW(VOLUME DOWN)
S15	87-036-142-010	TACT SW(DUBBING HIGH)
S16	87-036-142-010	TACT SW(DUBBING NORMAL)
S17	87-036-142-010	TACT SW(CD)
S18	87-036-142-010	TACT SW(VCR/AUX)
S19	87-036-142-010	TACT SW(PHONO)
S20	87-036-142-010	TACT SW(TUNER)
S21	87-036-142-010	TACT SW(DSL)
S22	87-036-142-010	TACT SW(TAPE)
S23	87-036-142-010	TACT SW(BBE)
S24	87-036-142-010	TACT SW(PRESET STATION1)
S25	87-036-142-010	TACT SW(PRESET STATION2)
S26	87-036-142-010	TACT SW(PRESET STATION3)
S27	87-036-142-010	TACT SW(PRESET STATION4)
S28	87-036-142-010	TACT SW(PRESET STATION5)
S29	87-036-142-010	TACT SW(PRESET STATION6)
S30	87-036-142-010	TACT SW(PRESET STATION7)
S31	87-036-142-010	TACT SW(PRESET STATION8)
S32	87-036-142-010	TACT SW(PRESET STATION9)
S33	87-036-142-010	TACT SW(PRESET STATION10)
S34	87-036-142-010	TACT SW(MODE)
S35	87-036-142-010	TACT SW(DISPLAY)
S36	87-036-142-010	TACT SW(SET)
S37	87-036-142-010	TACT SW(TUNING DOWN)
S38	87-036-142-010	TACT SW(BAND)
S39	87-036-142-010	TACT SW(TUNING UP)
S40	87-036-142-010	TACT SW(SLEEP)
S41	87-036-142-010	TACT SW(STANDBY)
S42	87-036-142-010	TACT SW(POWER)
S43	82-221-614-019	SLIDE SW(CBRS/REVERSE MODE)
S351	81-653-644-019	SLIDE SW(DOLBY B NR)
SFR401	★87-021-745-019	SFR 47KB
SFR402	★87-021-745-019	SFR 47KB
VR301	81-631-642-019	VOLUME SLIDE 100KB(G.E.70HZ)
VR302	81-631-642-019	VOLUME SLIDE 100KB(G.E.350HZ)
VR303	81-631-642-019	VOLUME SLIDE 100KB(G.E.1KHZ)
VR304	81-631-642-019	VOLUME SLIDE 100KB(G.E.3.5KHZ)
VR305	81-631-642-019	VOLUME SLIDE 100KB(G.E.10KHZ)
VR401	81-653-643-019	VOLUME 50KB(BBE)

=== POWER CIRCUIT BOARD SECTION ===

⚠	★87-033-147-019	FUSE CLAMP
⚠F1	87-035-366-010	FUSE T2.5A
⚠PT1	81-653-626-019	POWER TRANSFORMER EZ-T(E,Z)
⚠PT1	81-653-625-019	POWER TRANSFORMER KG(K,740K)

=== DECK-1 CIRCUIT BOARD SECTION ===

S1	S6-401-011-740	LEAF SW(PLAY)
S2	S6-401-011-750	LEAF SW(FR)
S3	S6-401-011-730	LEAF SW(CST)
S4	S6-401-011-730	LEAF SW(LH)
SFR1	S6-816-010-010	SFR 4.7K
SFR2	S6-816-010-010	SFR 4.7K
SOL1	S1-880-210-130	SOLENOID(PLAY)
SOL2	S1-880-210-130	SOLENOID(F/R)

=== DECK-2 CIRCUIT BOARD SECTION ===

S1	S6-401-011-740	LEAF SW(PLAY)
S2	S6-401-011-750	LEAF SW(FR)
S3	S6-401-011-730	LEAF SW(CST)
S4	S6-401-011-730	LEAF SW(LH)
S5	S6-401-011-730	LEAF SW(REA)
S6	S6-401-011-730	LEAF SW(REB)
SFR1	S6-816-010-010	SFR 4.7K
SFR2	S6-816-010-010	SFR 4.7K
SOL1	S1-880-210-130	SOLENOID(PLAY)
SOL2	S1-880-210-130	SOLENOID(F/R)

=== RELAY(D2) CIRCUIT BOARD SECTION ===

=== POWER SW CIRCUIT BOARD SECTION ===

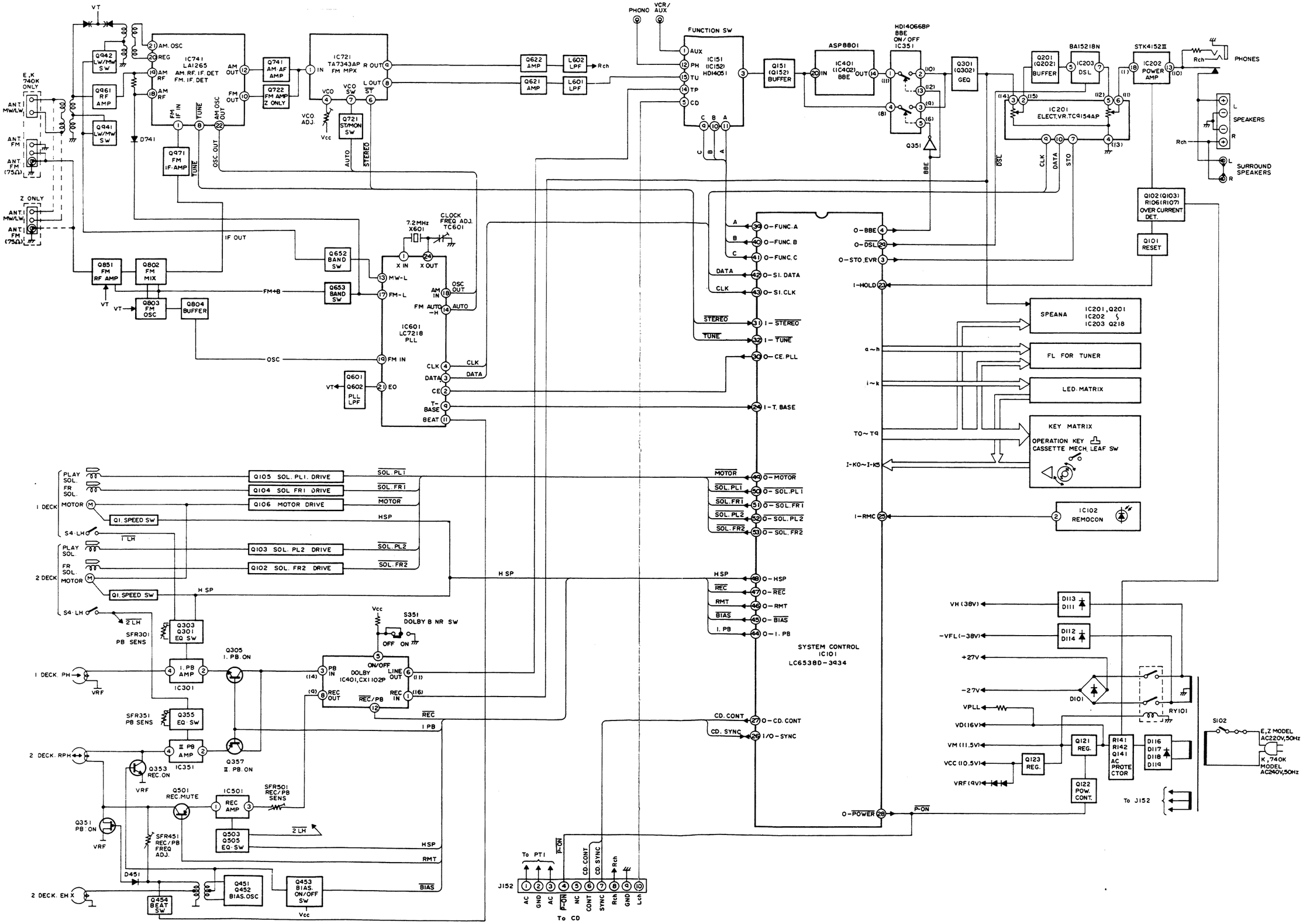
⚠	★87-033-147-019	FUSE CLAMP
⚠F1	87-035-365-018	FUSE,T2A
⚠S102	87-036-155-019	PUSH SW(POWER)

=== TRANSISTOR CIRCUIT BOARD SECTION ===

=== MISCELLANEOUS ===

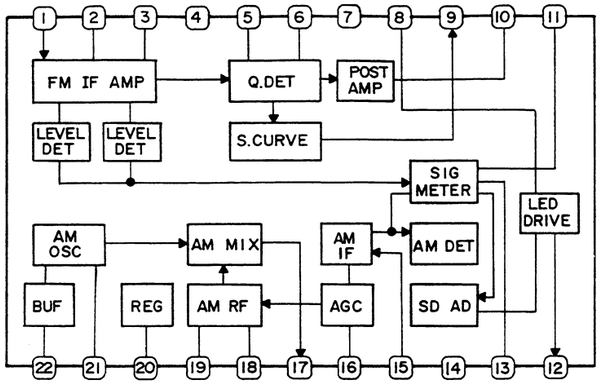
⚠	★82-187-796-019	AC CORD(BS)(K,740K)
⚠	★87-085-199-010	AC CORD BUSHING
⚠	★82-187-797-019	AC CORD(E)(E,Z)
M1	S6-005-030-420	MOTOR MMI-6H2LWK(D1,D2)
PH	S6-201-030-320	PB HEAD P-7442BS-0951(D1)
RPEH	S6-201-060-100	R/P/E,HEAD KC-9242CA-9730(D2)

BLOCK DIAGRAM

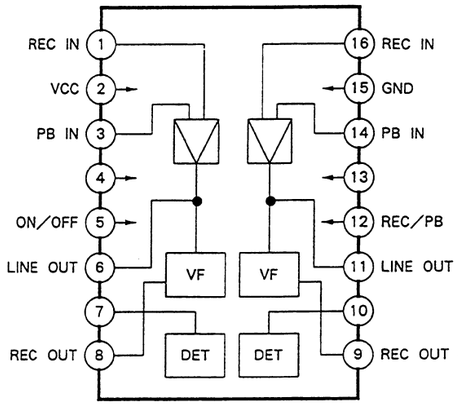


IC BLOCK DIAGRAM

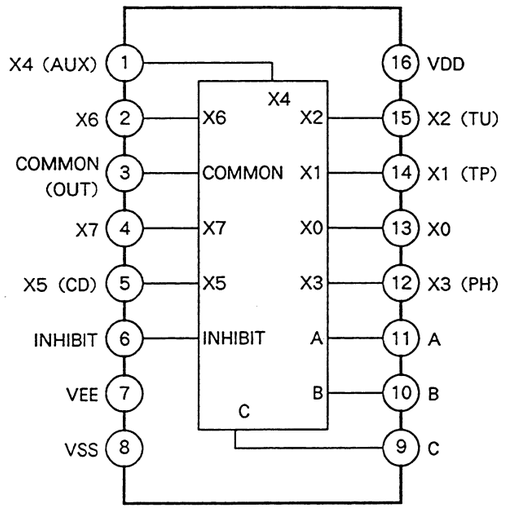
LA1265



CX1102P



HD14051BP

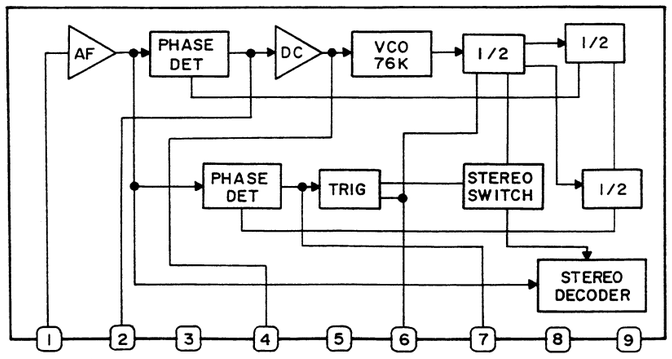


IC HD14051BP TRUTH TABLE

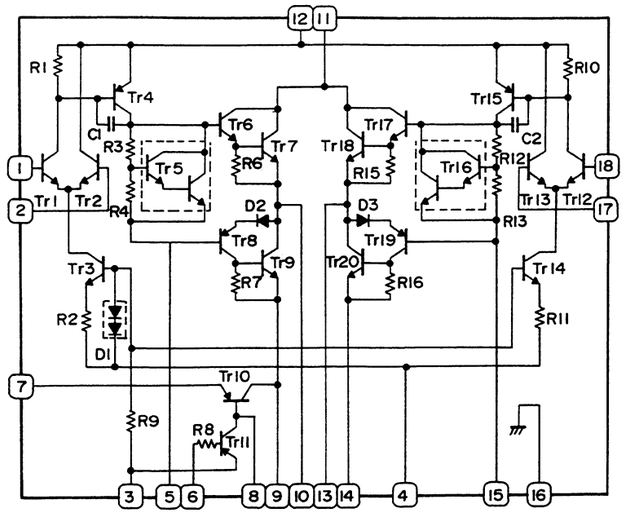
CONTROL INPUT				ON
INHIBIT	C	B	A	SWITCH
0	0	0	0	X0
0	0	0	1	X1
0	0	1	0	X2
0	0	1	1	X3
0	1	0	0	X4
0	1	0	1	X5
0	1	1	0	X6
0	1	1	1	X7
1	X	X	X	—

※ X : DONT CARE

TA7343AP



STK4152II



PRACTICAL SERVICE FIGURE

〈TUNER SECTION〉

〈FM SECTION〉

IHF sensitivity :	1±4dB (THD 3%, 98MHz)
	9±4dB (THD 3%, 98MHz) (Z only)
S/N 50dB sensitivity :	28±6dB (98MHz)
S/N 46dB sensitivity :	38±6dB (98MHz)(Z only)
Intermediate frequency :	10.7MHz
Stereo distortion :	Less than 1.5% (98MHz)
Stereo separation :	More than 25dB (98MHz)

〈MW SECTION〉

Sensitivity : (S/N 20dB)	53±6dB (1008kHz)
Intermediate frequency :	450kHz

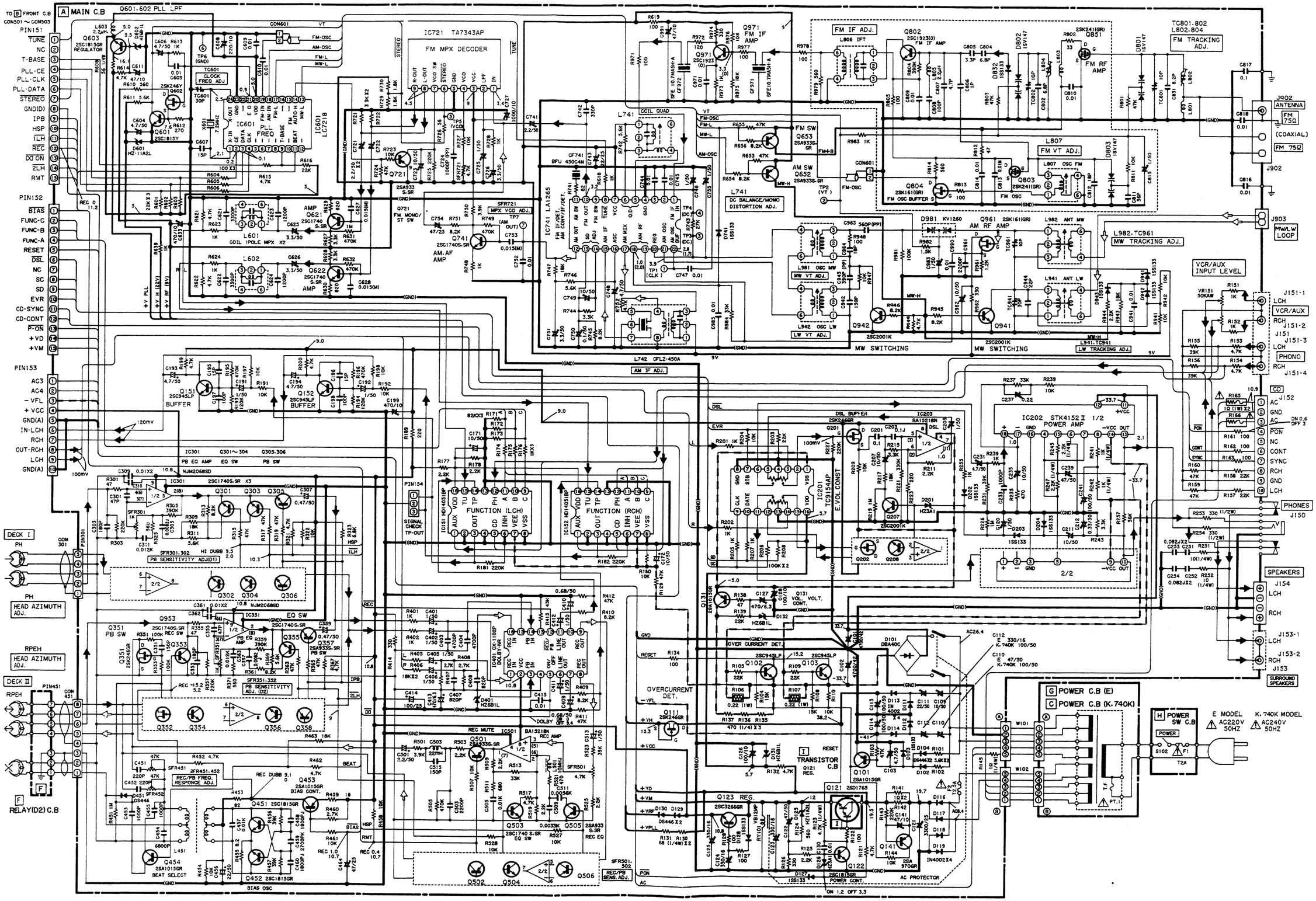
〈LW SECTION〉

Sensitivity : (S/N 20dB)	64±5dB (198kHz)
Intermediate frequency :	450kHz

〈CASSETTE DECK SECTION〉

PB output level :	4.4±0.8V (SP out) TTS-200 (TCC-130, TTA-161)
REC/PB output level (AUX 1kHz):	2.4V±2.0dB (SP out)
Distortion (REC/PB) :	Less than 2% (NORM.) Less than 2.5% (CrO_2)
Noise (PB) :	Less than 15/22mV (DOLBY B NR ON/OFF CrO_2) Less than 16/33mV (DOLBY B NR ON/OFF NORM.)
Erasing ratio :	More than 60dB (125Hz)
Channel separation :	More than 32dB (1kHz, 0VU)
Recording bias frequency :	100kHz
REC/PB S/N ratio : (Weighted-A)	More than 52/44dB (DOLBY B NR ON/OFF CrO_2) More than 50/42dB (DOLBY B NR ON/OFF NORM.)
Crosstalk :	More than 60dB (1kHz, 0VU)
Wow & flutter (W-RMS):	Less than 0.18% (DECK 1, 2)
Tape speed :	3000Hz±1.5% TTA-100 (TTA-111S)
Take-up torque :	30～60 g-cm (DECK 1, 2)
F.F & REW torque :	55～120 g-cm (DECK 1, 2)
Back tension :	2～5 g-cm (DECK 1, 2)
Test tape :	NORMAL TTA-600 (TTA-119K) CrO_2 TTA-610 (TTA-119H)

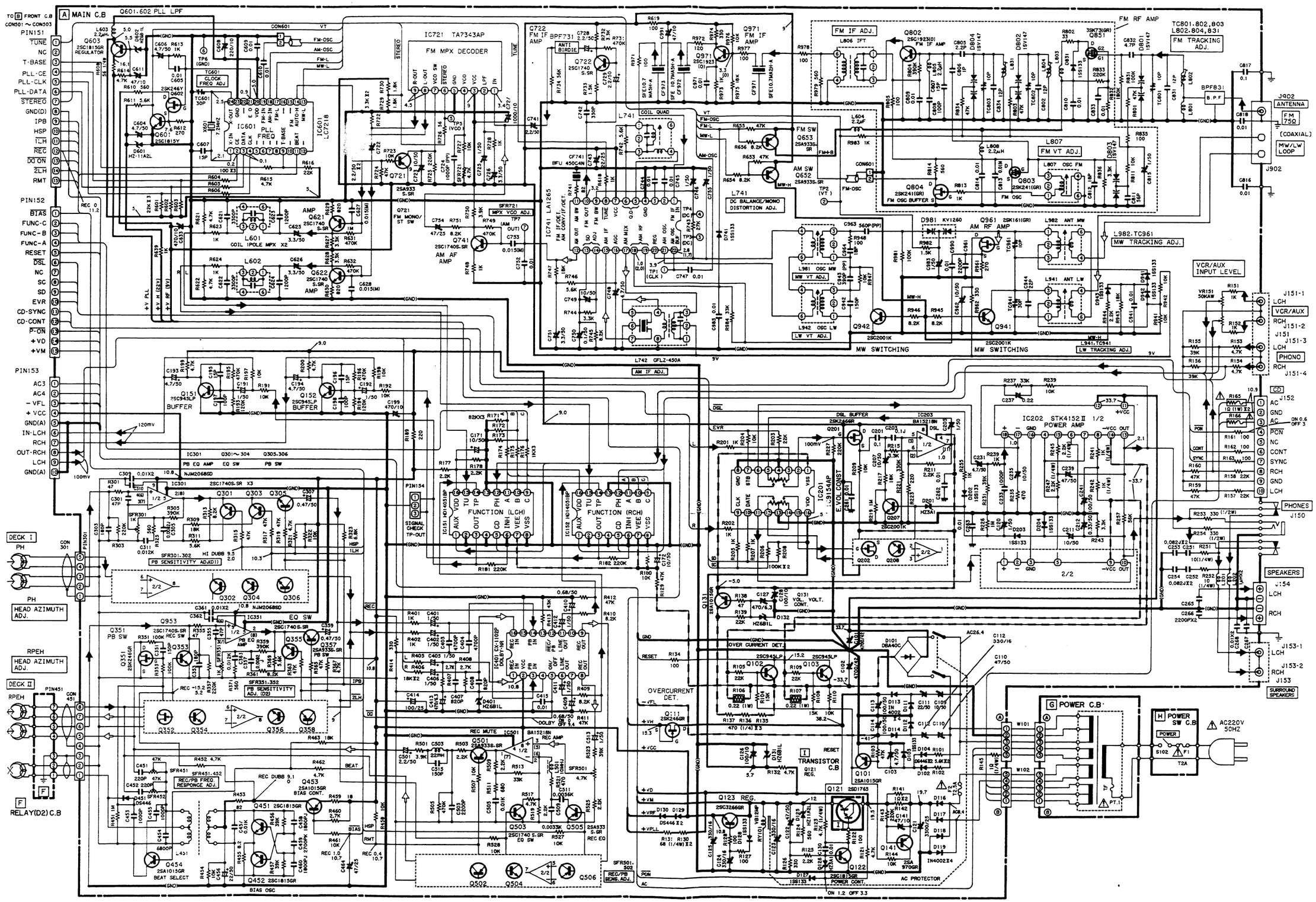
SCHEMATIC DIAGRAM—1 (E, K, 740K)



A MAIN C.B

J408 ANTENNA
FM 75Ω
FM 75Ω (COAXIAL)
J903 MW/LW LOOP
VR151 VCR/AUX INPUT LEVEL
J151 VCR/AUX
PHONO (USE WITH MODEL DX-F77 DX-E740)
J152 CD (USE WITH MODEL DX-M77 DX-M740)
To C POWER C.B (K,740K MODEL)
To C POWER C.B (E MODEL)
J153 SURROUND SPEAKERS SPEAKER IMP 15Ω-16Ω
J154 SPEAKERS
SPEAKER IMP 6Ω
To C FRONT C.B CON501
To C FRONT C.B CON502
To C FRONT C.B CON503
J150 PHONES
I TRANSISTOR C.B
CON501 To A MAIN PIN501

SCHEMATIC DIAGRAM—2 (Z)



A MAIN C.B

J902 ANTENNA

MW/LW LOOP

FM 75Ω (COAXIAL)

VR151 VCR/AUX INPUT LEVEL

J151 L VCR/AUX R

J151 L PHONO R (USE WITH MODEL DX-E77)

J152 CD (USE WITH MODEL DX-M77)

To C POWER C.B

J153 SURROUND SPEAKERS SPEAKER IMP. 16Ω+16Ω

J154 SPEAKERS R L

SPEAKER IMP. 6Ω

TO CHASSIS GND

To B FRONT C.B CON501

To B FRONT C.B CON502

To B FRONT C.B CON503

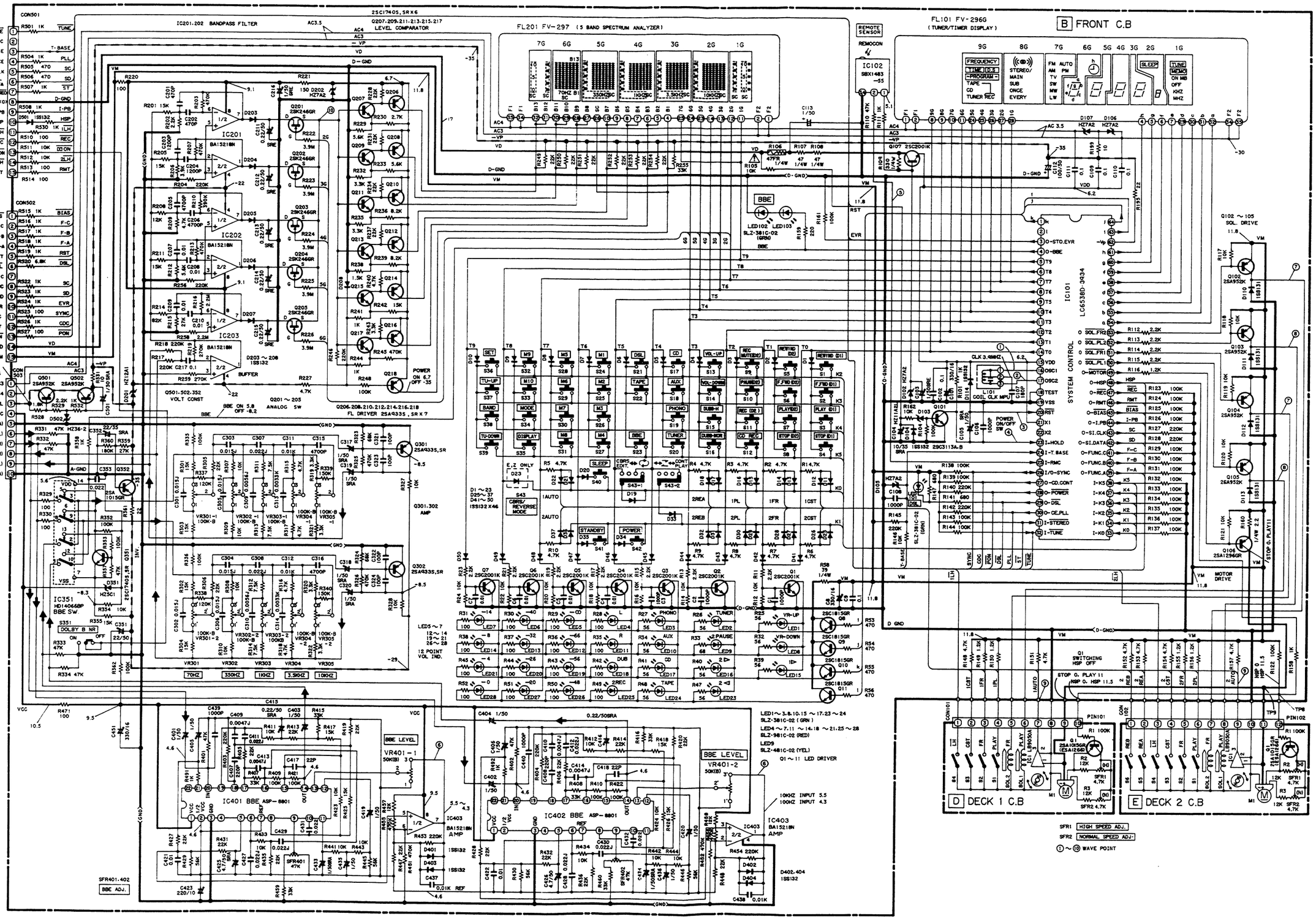
J150 PHONES

I TRANSISTOR C.B

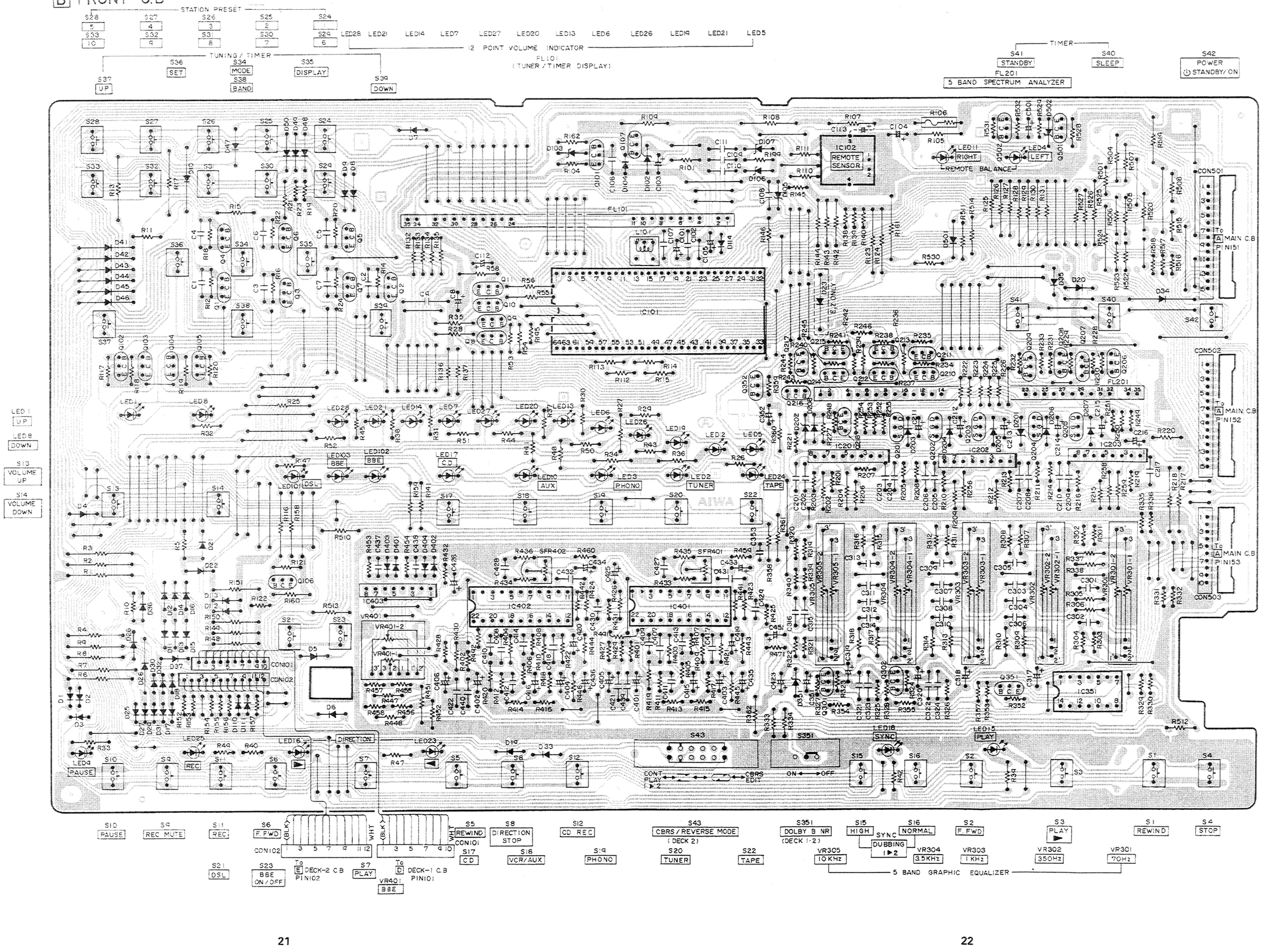
CON301

To A MAIN PIN301

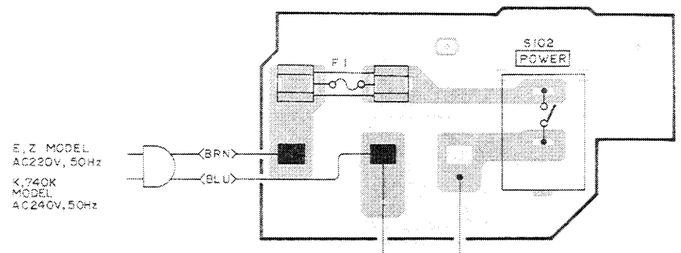
To G POWER C.B


B FRONT C.B
FL101 FV-296G (TUNER/TIMER DISPLAY)
FL201 FV-297 (5 BAND SPECTRUM ANALYZER)
IC102 SBX1483-55
REMOCON
IC101 LC65538D-3434 SYSTEM CONTROL
IC201 BA15218N
IC202 BA15218N
IC203 BA15218N
IC351 HD14066BP BBE SW
IC401 BBE ASP-8801
IC402 BBE ASP-8801
IC403 BA15218N AMP
D DECK 1 C.B
E DECK 2 C.B
SFR1 HIGH SPEED ADJ.
SFR2 NORMAL SPEED ADJ.
① ~ ⑩ WAVE POINT
SFR401.402 BBE ADJ.
VR401-1 50K(B)
VR401-2 50K(B)
BBE LEVEL
BUFFER
VOLT CONST
ANALOG SW
FL DRIVER
LEVEL COMPARATOR
BANDPASS FILTER
Q102 ~ 105 SOL. DRIVE
MOTOR DRIVE
Q1 SWITCHING
STOP 0. PLAY 11
HSP 0. HSP 11.5
POWER ON 6.7 OFF -35
BBE ON 5.8 OFF -8.2
LED1 ~ 3.8.10.15 ~ 17.23 ~ 24 SLZ-381C-02 (GRN)
LED4 ~ 7.11 ~ 14.18 ~ 21.25 ~ 28 SLZ-981C-02 (RED)
LED9 SLZ-481C-02 (YEL)
Q1 ~ 11 LED DRIVER
10KHZ INPUT 5.5
100HZ INPUT 4.3
CLK 3.6MHZ
POWER ON/OFF SW
REMOTE SENSOR
CON501
CON502
CON503
CON101
CON102
PIN101
PIN102
TP8
TP9

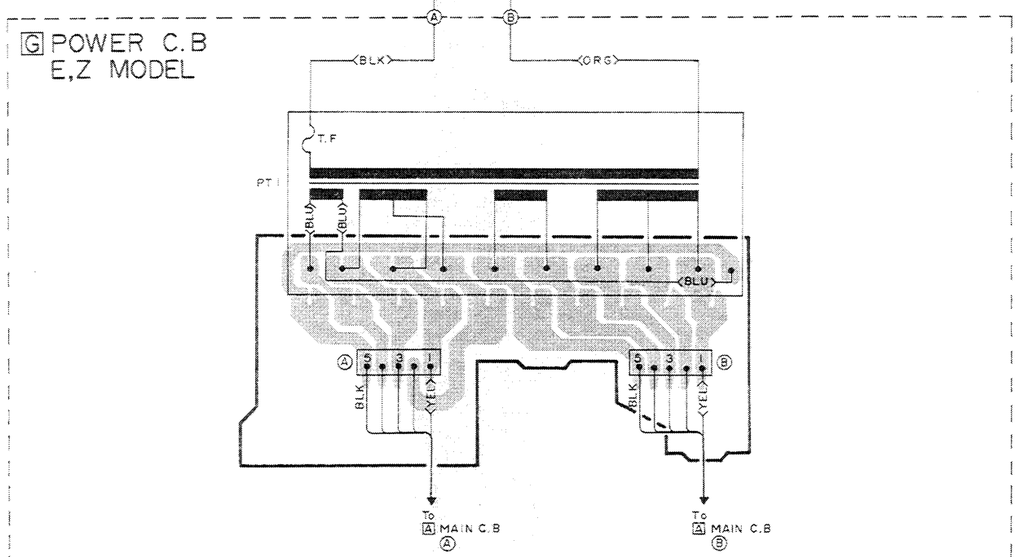
B FRONT C.B


STATION PRESET
S28 5
S27 4
S26 3
S25 2
S24 1
S33 10
S32 9
S31 8
S30 7
S29 6
LED28 LED21 LED14 LED7 LED27 LED20 LED13 LED6 LED26 LED19 LED21 LED5
12 POINT VOLUME INDICATOR
FL101
(TUNER/TIMER DISPLAY)
TUNING/TIMER
S36 SET
S34 MODE
S38 BAND
S35 DISPLAY
S37 UP
S39 DOWN
TIMER
S41 STANDBY
S40 SLEEP
FL201
5 BAND SPECTRUM ANALYZER
S42 POWER ⏻ STANDBY/ON
IC102 REMOTE SENSOR
LED1 RIGHT
LED4 LEFT
REMOTE BALANCE
CON501
CON502
CON503
To A MAIN C.B PIN151
To A MAIN C.B PIN152
To A MAIN C.B PIN153
LED1 UP
LED8 DOWN
S13 VOLUME UP
S14 VOLUME DOWN
LED9 PAUSE
LED25 REC
LED16 DIRECTION
LED23
CON101
CON102
S10 PAUSE
S9 REC MUTE
S11 REC
S6 F.FWD
S5 REWIND
S8 DIRECTION STOP
S12 CD REC
S43 CBRS/REVERSE MODE (DECK 2)
S351 DOLBY B NR (DECK 1·2)
S15 HIGH
S16 NORMAL
SYNC DUBBING 1▶2
S2 F.FWD
S3 PLAY ▶
S1 REWIND
S4 STOP
S21 DSL
S23 BBE ON/OFF
S7 PLAY
S17 CD
S18 VCR/AUX
S19 PHONO
S20 TUNER
S22 TAPE
VR401 BBE
To E DECK-2 C.B PIN102
To D DECK-1 C.B PIN101
VR305 10KHz
VR304 3.5KHz
VR303 1KHz
VR302 350Hz
VR301 70Hz
5 BAND GRAPHIC EQUALIZER

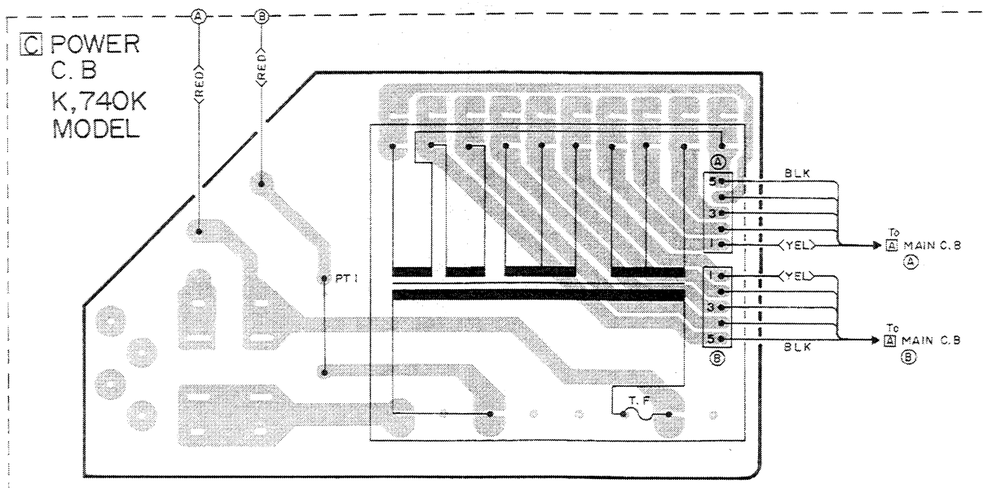
H POWER SW C.B

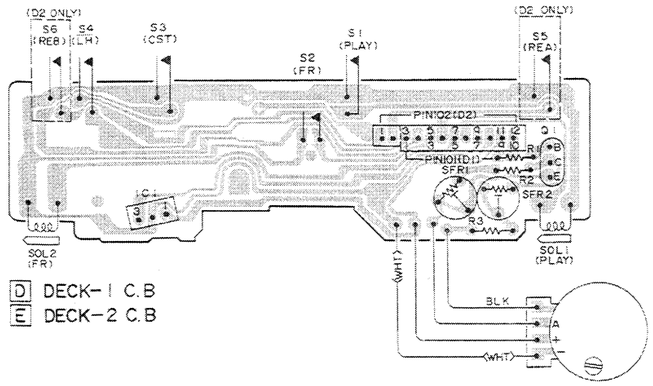


G POWER C.B E,Z MODEL



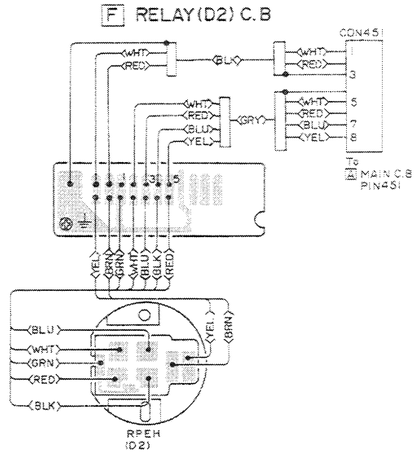
C POWER C.B K,740K MODEL



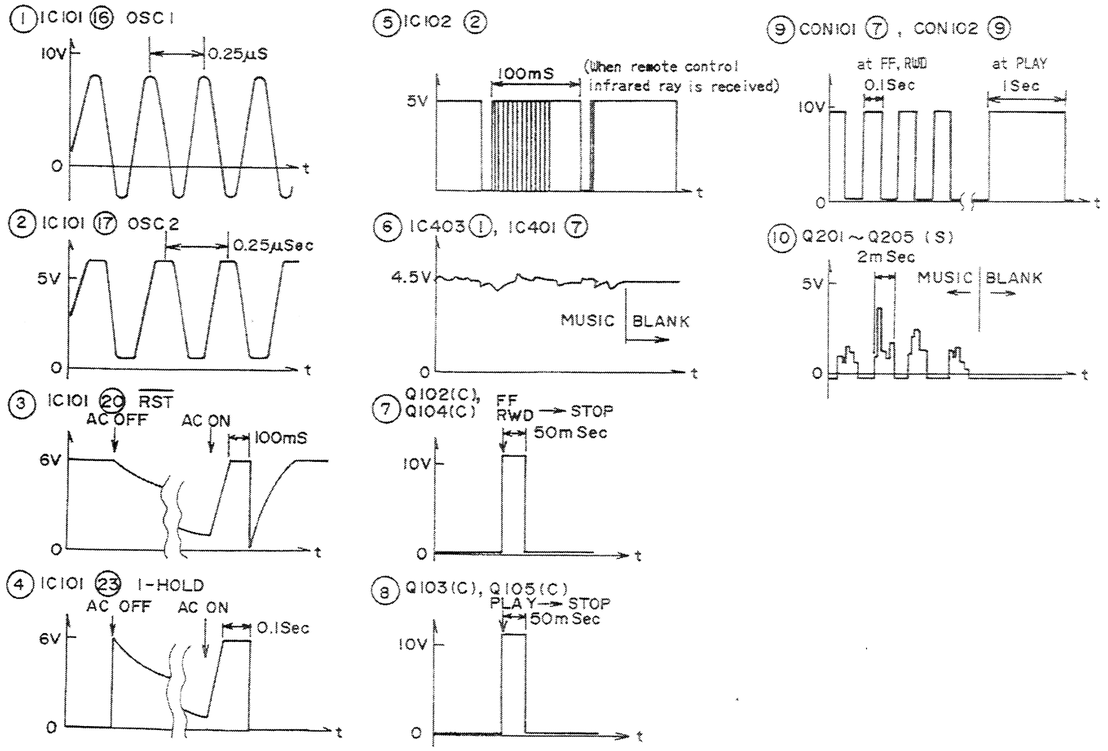


D DECK-1 C.B
E DECK-2 C.B

F RELAY(D2) C.B

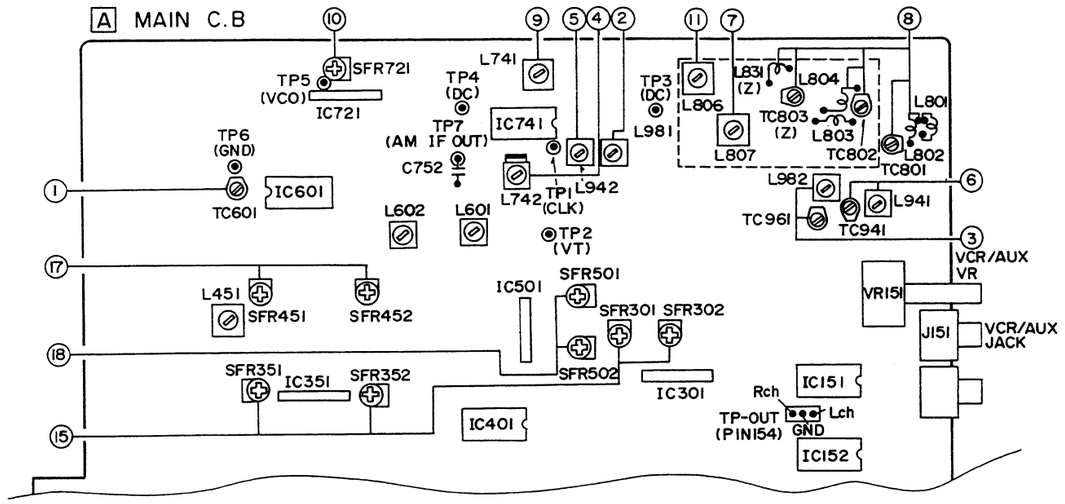


WAVE FORM

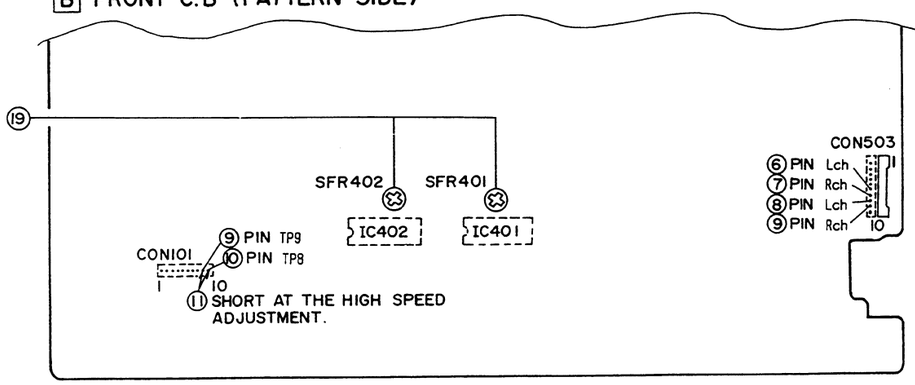


ADJUSTMENT

A MAIN C.B

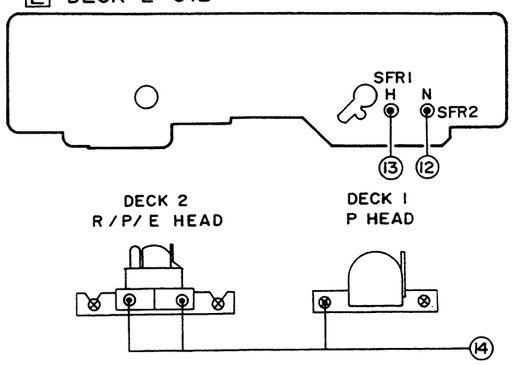


B FRONT C.B (PATTERN SIDE)



D DECK-1 C.B

E DECK-2 C.B



(TUNER SECTION)

1. Clock Frequency Adjustment
   Settings : · Test point : TP1
   · Adjustment location : TC601
   Method : Set to MW 522kHz and adjust so that the test point becomes 972kHz±0.01kHz.

2. MW VT Adjustment
   Settings : · Test point : TP2
   · Adjustment location : L981
   Method : Set to MW 522kHz and adjust so that the test point becomes 0.8V±0.05V.

3. MW Tracking Adjustment
   Settings : · Test point : TP-OUT (PIN154)
   L982 · · · · · · · · · · · · · · · · · 603kHz
   TC961 · · · · · · · · · · · · · · · · · 1404kHz

4. AM IF Adjustment
   Settings : · Test point : TP7 (C752)
   L742 · · · · · · · · · · · · · · · · · 450kHz

5. LW VT Adjustment
   Settings : · Test point : TP2
   · Adjustment location : L942
   Method : Set to LW 153kHz and adjust so that the test point becomes 1.4V±0.05V.

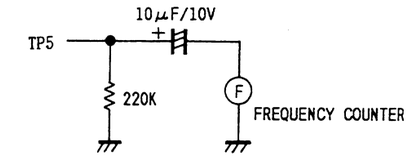
6. LW Tracking Adjustment
   Settings : · Test point : TP-OUT (PIN154)
   L941 · · · · · · · · · · · · · · · · · 153kHz
   TC941 · · · · · · · · · · · · · · · · · 293kHz

7. FM VT Adjustment
   Settings : · Test point : TP2
   · Adjustment location : L807
   Method : Set to FM, 87.5MHz and adjust so that the test point 2 becomes 3.0V±0.05V.

8. FM Tracking Adjustment
   Settings : · Test point : TP-OUT (PIN154)
   TC801, TC802, TC803 (Z ONLY) · · · · · · 108MHz
   L802, L804, L831(Z ONLY) · · · · · · · · 87.5MHz

9. DC Balance/MONO Distortion Adjustment
   Settings : · Test point : TP3, TP4 (DC balance)
   TP-OUT (PIN154)(Distortion)
   · Adjustment location : L741
   Method : Set to FM, 98.0MHz and adjust L741 so that TP3 and TP4 output becomes 0V±0.02V. Next, adjust L741 so that the distortion becomes minimum (less than 0.8%).

10. MPX VCO Adjustment
    Settings : · Test point : TP5
    · MODE SW : STEREO
    · Adjustment location : SFR721
    Method : Connect a capacitor and a resistor as below. Set to FM, 98.0MHz and adjust so that the frequency at test point becomes 38kHz±0.05 kHz.



11. FM IF Adjsutment
    Settings : · Test point : TP-OUT (PIN154)
    L806 · · · · · · · · · · · · · · · · · 10.7MHz

(DECK SECTION)

12. Normal Speed Adjustment (DECK-1, DECK-2)
    Settings : · Test tape : TTA-100 (TTA-111S)
    · Test point : TP-OUT (PIN154)
    · Adjustment location : SFR2 (DECK-1, DECK-2)
    Method : Play back the test tape, adjust for 3000Hz.

13. High Speed Adjustment (DECK-1, DECK-2)
    Settings : · Test tape : TTA-100 (TTA-111S)
    · Test point : TP-OUT (PIN154)
    · Adjustment location : SFR1 (DECK-1, DECK-2)
    Method : Play back the test tape, and make the high speed condition to be shorted between TP8 (FRONT C.B) and TP9. Adjust for 6000Hz.

14. Head Azimuth Adjustment (DECK-1, DECK-2)
    Settings : · Test tape : TTS-310 (TTA-317E)
    · Adjustment location : Head azimuth adjustment screw
    Method : Play back the 10kHz signal of the test tape and adjust so that the output becomes maximum. Next, perform on each FWD PLAY and REV PLAY mode (DECK-2).

15. PB Sensitivity Adjustment (DECK-1, DECK-2)
    Settings : · Test tape : TTS-200 (TTA-161, TCC-130)
    · Test point : TP-OUT (PIN154)
    · Adjustment location : SFR301 (DECK-1, Lch)
    SFR302 (DECK-1, Rch)
    SFR351 (DECK-2, Lch)
    SFR352 (DECK-2, Rch)
    Method : Play back the test tape and adjust so that the output becomes 210mV.

16. PB Frequency Response Check (DECK-1, DECK-2)

Settings : · Test tape : TTS-310 (TTA-317E, SCC-1429)
· Test point : TP-OUT (PIN154)

Method : Play the test tape and check that the difference in the output levels between the 315Hz and 10kHz signals is within 0dB±2dB and the difference in the sensitivity between the left and right channels at 10kHz is within 2dB.

17. REC/PB Frequency Response Adjustment (DECK-2)

Settings : · Test tape : TTA-600 (TTA-119K)
· Test point : TP-OUT (PIN154)
· Dolby NR SW : OFF
· Input signal : VCR/AUX (VCR/AUX VR:MAX)
· Adjustment location : SFR451 (Lch)
SFR452 (Rch)

Method : Set the input signal level so that the voltage at the test point is 150mV and attenuate the level by -20dB. Record and play the 1kHz and 10kHz signals and adjust so the output difference becomes 0 $^{+1}_{-0}$ dB.

18. REC/PB Sensitivity Adjustment (DECK-2)

Settings : · Test tape : TTA-600 (TTA-119K)
· Test point : TP-OUT (PIN154)
· Input signal : VCR/AUX (VCR/AUX VR:MAX)
· Adjustment location : SFR501 (Lch)
SFR502 (Rch)

Method : Set the input signal level so the 1kHz output at the test point is 150mV and attenuate the level by -20dB (15mV). Record and play the signal and adjust so the output is 11mV $^{+1}_{-0}$ dB.

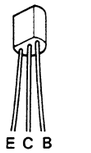
(AMP SECTION)

19. BBE Adjustment

Settings : · Test point : CON503⑧Pin (Rch)
⑨Pin (Lch)
· DSL SW : OFF
· BBE VOL : MIN
· Input signal : CON503⑥Pin (Lch)
⑦Pin (Rch)
· Adjustment location : SFR401 (Lch)
SFR402 (Rch)

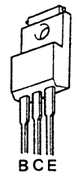
Method : Input a 1kHz (100mV) signal and adjust so that the 5kHz level with the BBE SW ON is +1.0±0.5dB with respect to the 1kHz level with the BBE SW OFF.

Confirmation : Check that 5kHz level is 0±2dB with respect to the 1kHz level with the BBE SW ON.



2SA933
2SA952
2SA970
2SA1015
2SA1296
2SC945
2SC1740
2SC1815
2SC1923
2SC2001
2SC3266
ESA1266

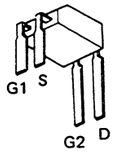
2SC3113



2SD1765

2SK161
2SK241

2SK246



3SK73

IC DESCRIPTION

LC6538D-3934

Pin No.	Pin name	Description
1	k	LED display output. Active "H".
2	ℓ	Unused.
3	O-STO. EVR	Electronic volume serial data store command output "H".
4	O-BBE	BBE ON/OFF output. "H" output turns BBE on.
5 ∫ 14	T9 ∫ T0	FL display digit outputs. Active "H". Key scan outputs.
15	VDD	Power supply pin.
16	OSC 1	Pins to generate a 3.9MHz clock signal.
17	OSC 2	
18	TEST	Connected to GND.
19	Vss	GND pin.
20	$\overline{RST}$	Reset input which goes "L" when AC power is supplied.
21	X1	Crystal oscillator pin. Unused and connected to VDD.
22	X2	Crystal oscillator pin. Unused and open.
23	I-HOLD	Power failure detection input. "H" input switches off all the output ports and then sets the unit to the HOLD mode (clock stopped and memory maintained). Goes "H" when the over-current detector in the power amplifier operates.
24	I-T. BASE	Clock pulse input for clock counting. 8Hz is input from the tuner PLL IC.
25	I-RMC	Remote control signal input.
26	I/O-SYNC	I/O port to synchronize the CD player. Works as DECK-CD SYNC I/O and AMP auto-function input.
27	O-CD. CONT	Remote control output for the CD player. Goes "L" when no signal is output.
28	O-$\overline{POWER}$	Power on/off output. Goes "L" when the power is turned on.
29	O-$\overline{DSL}$	DSL on/off output. Goes "L" when DSL is on.
30	O-CE. PLL	Chip enable output for the PLL IC (LC7218) in the tuner section.
31	I-$\overline{STEREO}$	Goes "L" when the tuner receives a stereo signal.
32	I-$\overline{TUNE}$	Tuning detection input from the tuner. Goes "L" when the tuner is tuned to a signal. Receives auto scan and auto stop signals, and drives the tuning display.
33 ∫ 38	I-K0 ∫ I-K5	Key return inputs.
39	O-FUNC. A	· Amp input switching (function) control outputs.
40	O-FUNC. B	
41	O-FUNC. C	
42	O-SI. DATA	Outputs data to the PLL IC in the tuner. Outputs data to the amp and electronic volume IC.
43	O-SI. CLK	Outputs a clock signal to the PLL IC in the tuner. Outputs a clock signal to the amp and electronic volume IC.
44	O-I. PB	Play input signal select output. Goes "H" when a tape is playing in DECK 1. Goes "H" in the record mode and when the power is turned on.

NO.	C	B	A	FUNCTION
1	L	L	H	TAPE
2	L	H	L	TUNER
3	L	H	H	PHONO
4	H	L	L	AUX
5	H	L	H	CD

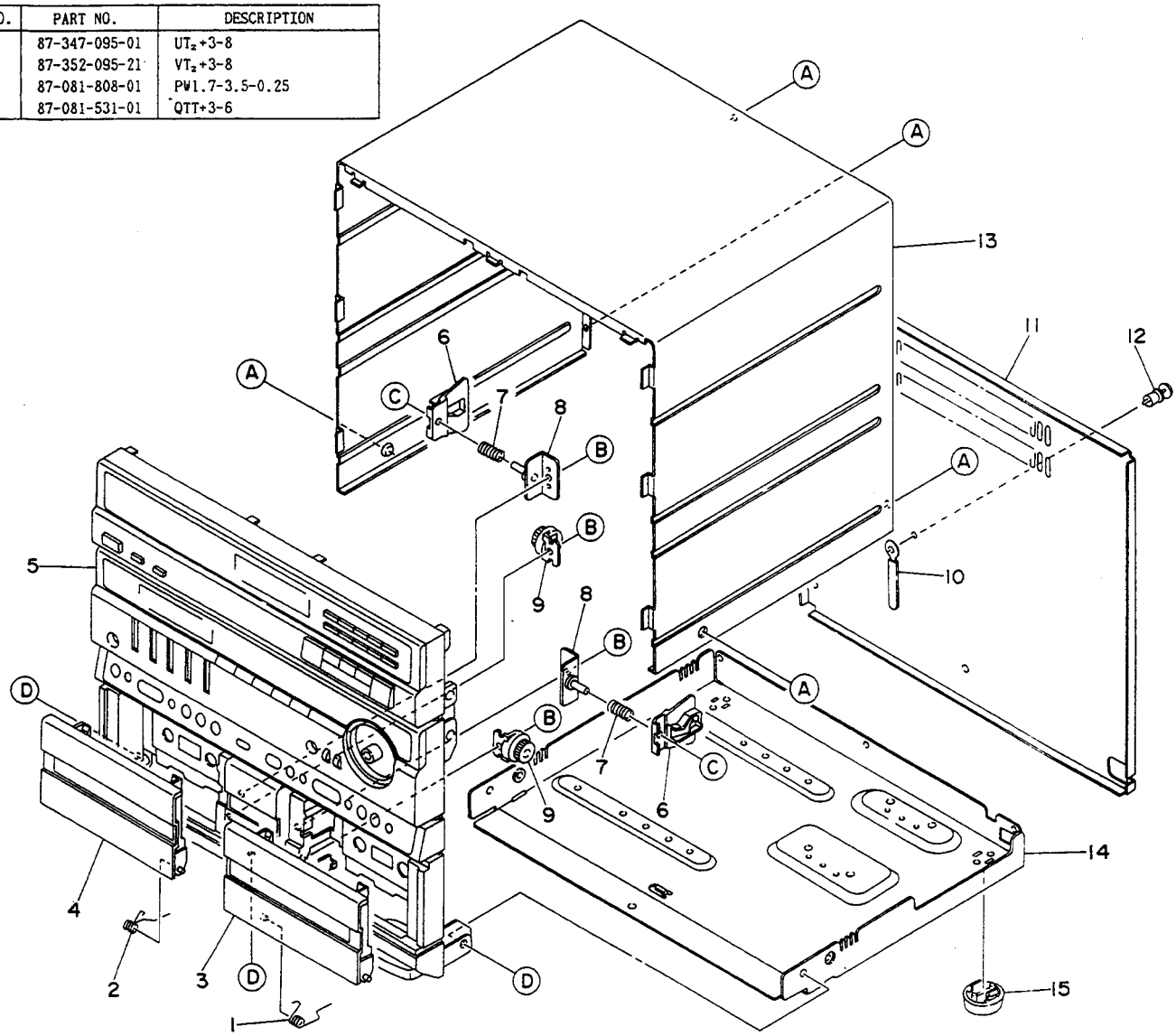
Pin No.	Pin name	Description
45	O-$\overline{\text{BIAS}}$	Bias oscillation on/off output. Goes "L" in the record and dubbing modes.
46	O-RMT	Record muting output. Goes "H" when muting signals.
47	O-$\overline{\text{REC}}$	Dolby NR recording/playback switching output. Goes "L" in the record mode. As this pin goes "H" during dubbing, the Dolby NR circuit is set to the playback mode.
48	O-HSP	Output "H" in the high-speed dubbing mode and "L" in other modes. When power is turned on, this pin outputs "L" for initialization.
49	O-$\overline{\text{MOTOR}}$	DECK 1/2 motor drive output. "L" output drives the motor. Outputs "L" for one second when the power is turned on. Outputs "H" when DECKs 1/2 are in the stop mode.
50	O-$\overline{\text{SOL. PL1}}$	DECK 1 PLAY solenoid output. Active "L".
51	O-$\overline{\text{SOL. FR1}}$	DECK 1 FR solenoid output. Active "L".
52	O-$\overline{\text{SOL. PL2}}$	DECK 2 PLAY solenoid output. Active "L".
53	O-$\overline{\text{SOL. FR2}}$	DECK 2 FR solenoid output. Active "L".
54 a 〜 〜 61 h		FL display segment outputs. Active "H".
62	-Vp	Negative power supply pin for the FL drive.
63 i 64 j		LED lighting outputs. Active "H".

IC, LC7218

Pin No.	Pin name	Description
1 24	X-IN X-OUT	A crystal oscillator (7.2MHz) is connected between these pins.
2 3 4	CE DATA CLK	When a key is operated, a signal is transmitted from the CPU (microprocessor). Active "H".
5 〜 8	—— 〜 ——	Open.
9	T. BASE	Outputs a reference clock signal (8Hz) for the clock.
10	——	Open.
11	BEAT	Beat select signal output.
12	——	Open.
13	MW-L	Outputs "H" when an MW broadcast is received.
14	FM AUTO-H	Outputs "H" when FM stereo switching is set to AUTO.
15 16	—— ——	Open.
17	FM-L	Outputs "H" when an FM broadcast is received.
18	AM IN	Receives the AM local oscillator frequency signal.
19	FM IN	Receives the FM local oscillator frequency signal.
20	V_{DD}	5V power supply pin.
21	E. O.	PLL charge pump output.
22	——	Open.
23	GND	GND.

EXPLODED VIEW—1

REF.NO.	PART NO.	DESCRIPTION
A	87-347-095-01	UT_2+3-8
B	87-352-095-21	VT_2+3-8
C	87-081-808-01	PW1.7-3.5-0.25
D	87-081-531-01	QTT+3-6

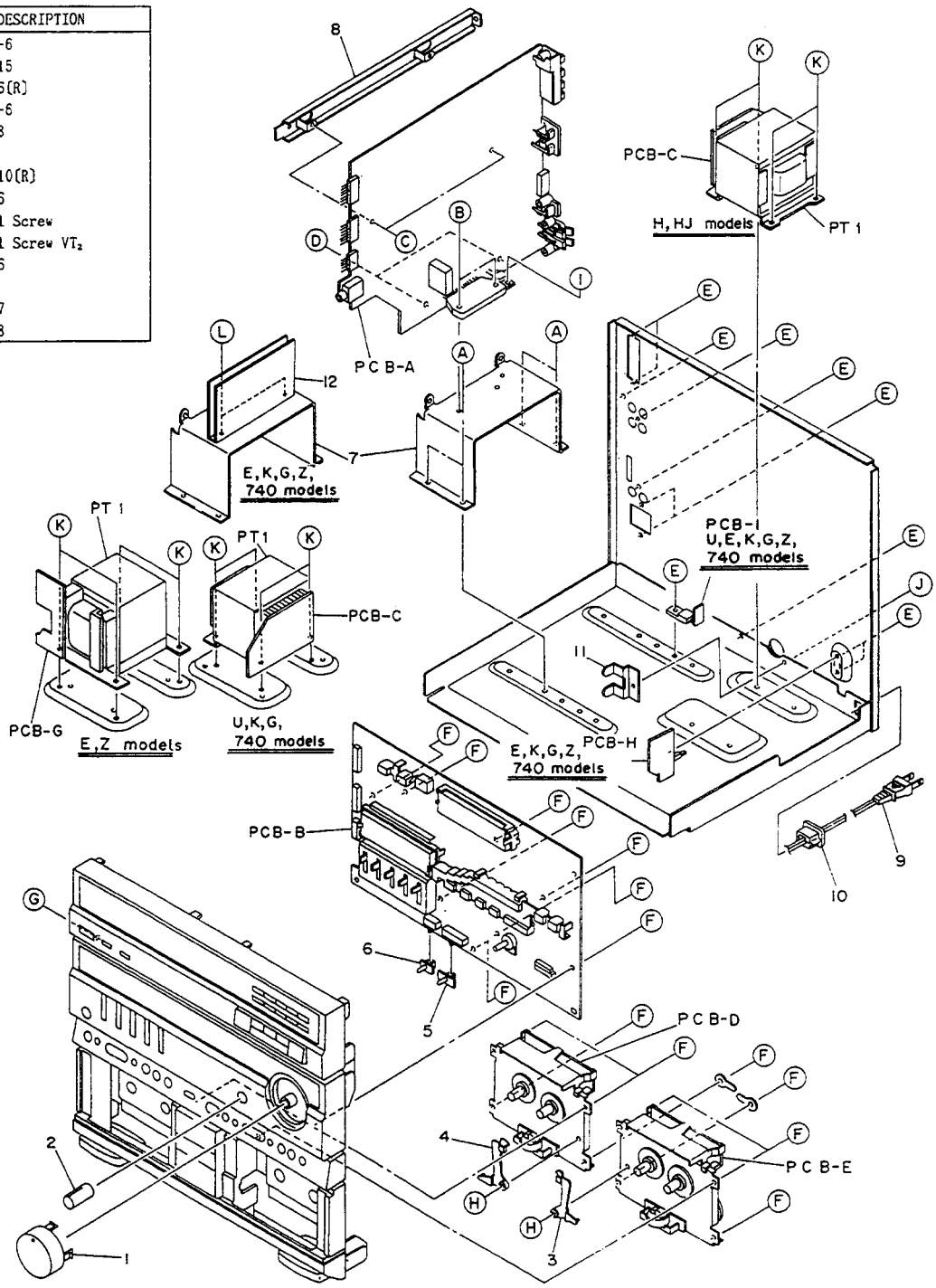


MECHANICAL PARTS LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q. TY
	1-1	★81-653-221-019	T-SPRING,EJECT 2	*	1
	1-2	★81-653-219-019	T-SPRING,EJECT 1	*	1
	1-3	09-047-442-010	CASSETTE BOX 2 ASSY	*	1
	1-3	09-047-453-010	CASSETTE BOX 2 ASSY(740)	*	1
	1-4	09-047-441-010	CASSETTE BOX 1 ASSY	*	1
	1-4	09-047-452-010	CASSETTE BOX 1 ASSY(740)	*	1
	1-5	★09-047-440-010	CABINET FRONT ASSY(H,G)	*	1
	1-5	★09-047-444-010	CABINET FRONT ASSY(U)	*	1
	1-5	★09-047-443-010	CABINET FRONT ASSY(E,K,Z)	*	1
	1-5	★09-047-451-010	CABINET FRONT ASSY(740)	*	1
	1-6	★81-715-214-010	PLATE,LOCK		2
	1-7	★81-715-234-019	C-SPRING,LOCK PLATE		2
	1-8	★81-715-217-310	HOLDER LOCK ASSY		2
	1-9	★87-063-143-010	OIL-DAMP 75		2
	1-10	---	WIRE BINDER		1
	1-11	★81-653-026-010	PANEL,REAR(H)	*	1
	1-11	★81-653-060-010	PANEL,REAR(HJ)	*	1
	1-11	★81-653-027-010	PANEL,REAR(U)	*	1
	1-11	★81-653-030-010	PANEL,REAR(E)	*	1
	1-11	★81-653-031-010	PANEL,REAR(K)	*	1
	1-11	★81-653-029-010	PANEL,REAR(G)	*	1
	1-11	★81-653-032-010	PANEL,REAR(Z)	*	1
	1-11	★81-653-072-010	PANEL,REAR CU(740)	*	1
	1-12	★87-084-077-019	NYLON RIVET 3.5-4.5		1
	1-13	★81-653-059-010	STEEL,CABINET(H,U,G)	*	1
	1-13	★81-653-046-018	STEEL,CABINET(E,K,Z)(740)	*	1
	1-14	---	CHASSIS,AMP		1
	1-15	★87-055-057-010	FOOT B		2

EXPLODED VIEW—2

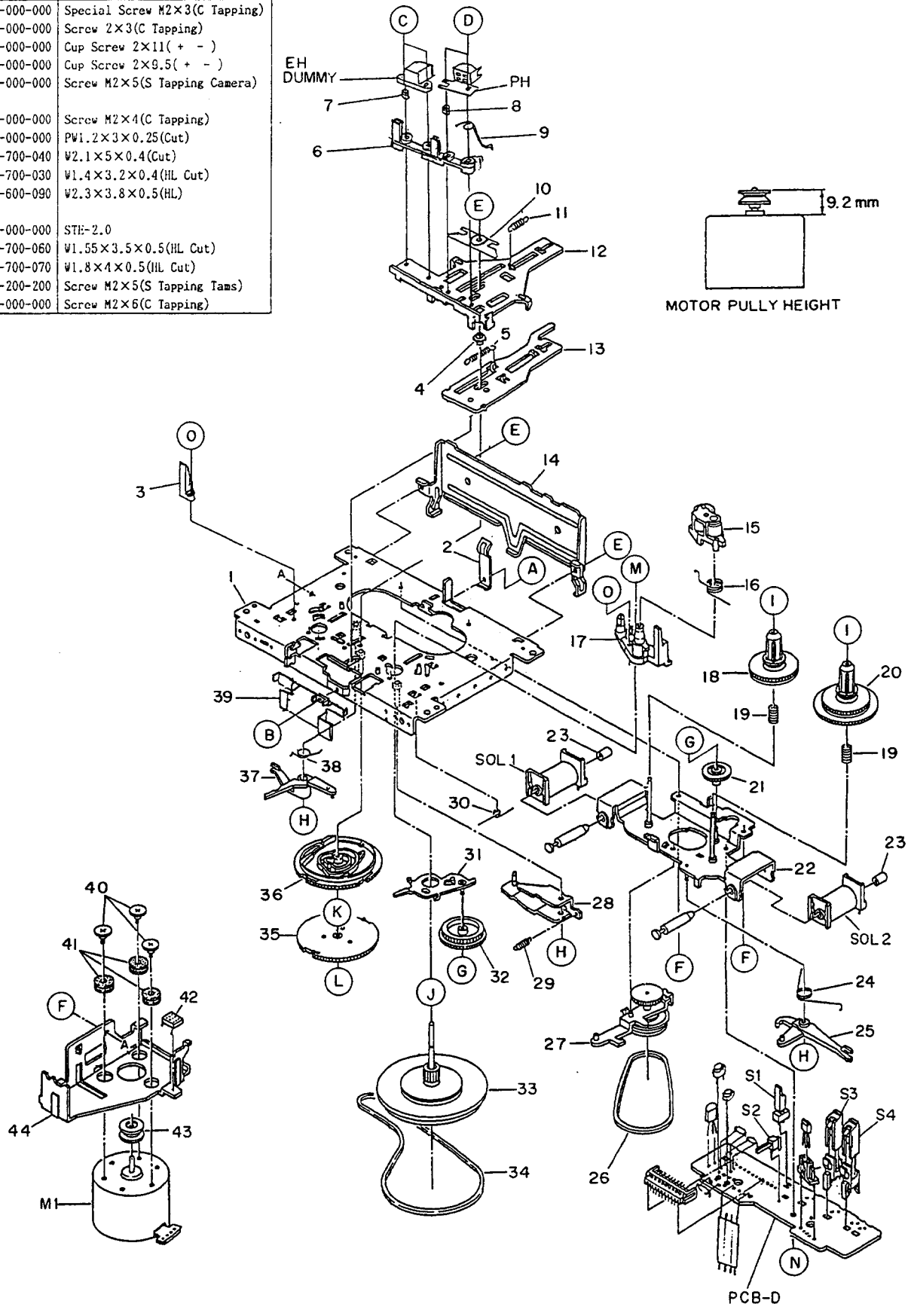
REF.NO.	PART NO.	DESCRIPTION
A	87-067-566-01	VFTT+3-6
B	87-342-099-21	UT$_2$+3-15
C	87-067-054-01	VTT+3-6(R)
D	87-512-094-21	VFT$_2$+3-6
E	87-352-095-21	VT$_2$+3-8
F	87-356-096-21	VT$_1$+3-10(R)
G	87-081-531-01	QTT+3-6
H	81-653-213-01	Special Screw
I	81-653-215-01	Special Screw VT$_2$
J	87-081-511-01	VTT+3-6
K	87-067-553-01	VWS+4-7
L	87-347-095-01	UT$_2$+3-8



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q. TY
	2-1	★81-653-054-010	KNOB,VOLUME	*	1
	2-1	★81-653-076-010	KNOB,VOLUME CU(740)	*	1
	2-2	★82-234-018-010	KNOB,BIAS		1
	2-3	★81-653-214-110	LEVER,EJECT 2	*	1
	2-4	★81-653-212-010	LEVER,EJECT 1	*	1
	2-5	★81-653-015-019	KNOB,SLIDE MODE	*	1
	2-6	★81-653-016-019	KNOB,SLIDE DOLBY	*	1
	2-7	---	HEAT SINK		1
	2-8	★81-653-202-010	HOLDER,PCB	*	1
	2-9	★87-034-749-019	AC CORD(H)		1
	2-9	★87-034-584-019	AC CORD(U)		1
	2-9	★82-187-797-019	AC CORD(E,Z)		1
	2-9	★82-187-796-019	AC CORD(K)(740)		1
	2-9	★82-187-795-019	AC CORD(G)		1
	2-10	★87-085-199-010	CORD BUSHING		1
	2-11	★81-653-217-019	HOLDER PS(H)		1
	2-12	---	HEAT SINK(E,K,G,Z)(740)		1

EXPLODED VIEW－3 (DECK 1)

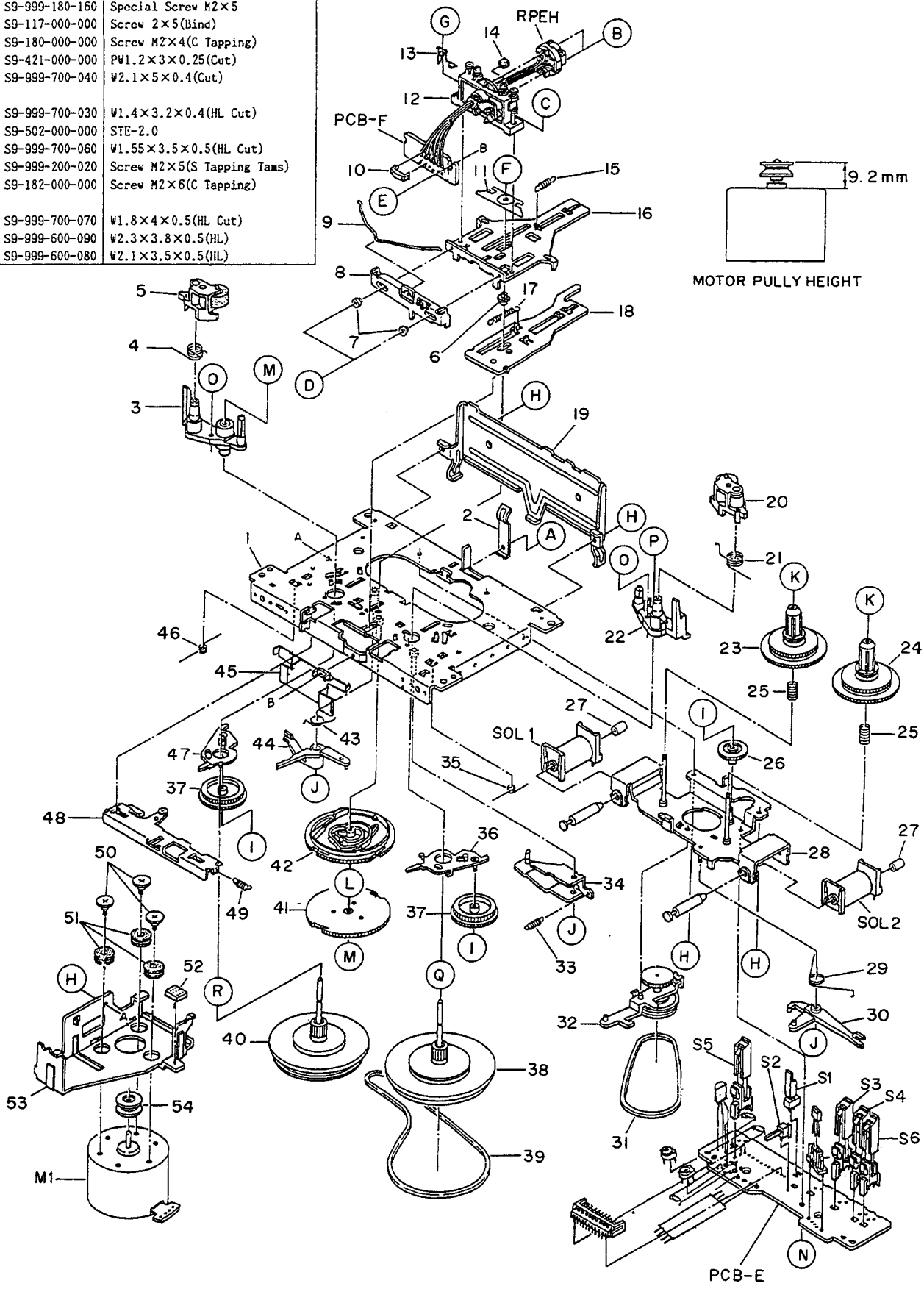
REF.NO.	PART NO.	DESCRIPTION
A	S9-178-000-000	Special Screw M2×3(C Tapping)
B	S9-179-000-000	Screw 2×3(C Tapping)
C	S9-221-000-000	Cup Screw 2×11(+ -)
D	S9-225-000-000	Cup Screw 2×9.5(+ -)
E	S9-985-000-000	Screw M2×5(S Tapping Camera)
F	S9-180-000-000	Screw M2×4(C Tapping)
G	S9-421-000-000	PW1.2×3×0.25(Cut)
H	S9-999-700-040	W2.1×5×0.4(Cut)
I	S9-999-700-030	W1.4×3.2×0.4(HL Cut)
J	S9-999-600-090	W2.3×3.8×0.5(HL)
K	S9-502-000-000	STE-2.0
L	S9-999-700-060	W1.55×3.5×0.5(HL Cut)
M	S9-999-700-070	W1.8×4×0.5(HL Cut)
N	S9-999-200-200	Screw M2×5(S Tapping Tams)
O	S9-182-000-000	Screw M2×6(C Tapping)



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q, TY
	3-1	*S1-880-015-010	MAIN CHASSIS ASSY		1
	3-2	*S1-829-100-010	PACK SPRING		1
	3-3	*S1-880-010-070	TAPE GUIDE		1
	3-4	*S1-880-020-190	PANEL COLLAR A		1
	3-5	*S1-880-020-050	PANEL SPRING		1
	3-6	*S1-880-020-080	HEAD BASE		1
	3-7	*S1-821-030-080	EH SPRING		1
	3-8	*S1-821-030-070	AZIMUTH SPRING		1
	3-9	*S1-880-040-060	PINCH ROLLER SPRING		1
	3-10	*S1-880-020-160	PANEL SPRING PLATE		1
	3-11	*S1-880-020-040	RC SPRING		1
	3-12	*S1-880-020-070	HEAD PANEL(A)		1
	3-13	*S1-880-025-010	HEAD PANEL(B) ASSY		1
	3-14	*S1-880-530-020	SWITCH PROTECTOR		1
	3-15	S1-880-043-010	PINCH ROLLER ARM(F) ASSY		1
	3-16	*S1-880-040-030	P ARM(F) SPRING		1
	3-17	*S1-880-090-080	FL METAL ASSY		1
	3-18	S1-880-053-070	S REEL ASSY		1
	3-19	*S1-880-050-220	B.T SPRING(R)		2
	3-20	S1-880-053-060	T REEL ASSY(F)		1
	3-21	*S1-880-050-080	FF GEAR		1
	3-22	*S1-880-055-010	REEL BASE ASSY		1
	3-23	*S1-880-210-060	PLUNGER HOLDER		2
	3-24	*S1-880-050-170	FR TRIGGER ARM SPRING		1
	3-25	*S1-880-050-150	RF TRIGGER ARM		1
	3-26	S1-880-070-070	RF BELT		1
	3-27	*S1-880-073-010	RF CLUTCH ASSY		1
	3-28	*S1-880-215-020	P KICK LEVER ASSY		1
	3-29	*S1-880-210-110	PK LEVER SPRING		1
	3-30	*S1-880-050-180	TG ARM(F) SPRING		1
	3-31	*S1-880-055-020	T GEAR ARM(F) ASSY		1
	3-32	*S1-880-050-140	T GEAR		1
	3-33	S1-880-093-010	FLYWHEEL(F) ASSY		1
	3-34	S1-880-090-100	MAIN BELT		1
	3-35	*S1-880-210-160	RF CAM GEAR		1
	3-36	*S1-880-210-150	M GEAR		1
	3-37	*S1-880-210-030	M TRIGGER ARM		1
	3-38	*S1-880-010-060	M TRIGGER ARM SPRING		1
	3-39	*S1-880-020-180	SHIELD PLATE		1
	3-40	*S1-851-140-180	MOTOR COLLAR SCREW		3
	3-41	*S1-821-120-660	MOTOR RUBBER		3
	3-42	*S1-880-090-200	MAT		1
	3-43	*S1-880-090-320	MOTOR PULLEY		1
	3-44	*S1-880-090-110	MOTOR BRACKET		1

EXPLODED VIEW—4 (DECK 2)

REF.NO.	PART NO.	DESCRIPTION
A	S9-178-000-000	Special Screw M2×3(C Tapping)
B	S1-865-020-350	Head Collar Screw
C	S9-078-000-000	Screw M2×5(Tams)
D	S9-547-000-000	Screw M1.7×3(Camera)
E	S9-999-200-340	Screw M2×8(S Tapping Tams)
F	S9-999-180-160	Special Screw M2×5
G	S9-117-000-000	Screw 2×5(Bind)
H	S9-180-000-000	Screw M2×4(C Tapping)
I	S9-421-000-000	PW1.2×3×0.25(Cut)
J	S9-999-700-040	W2.1×5×0.4(Cut)
K	S9-999-700-030	W1.4×3.2×0.4(HL Cut)
L	S9-502-000-000	STE-2.0
M	S9-999-700-060	W1.55×3.5×0.5(HL Cut)
N	S9-999-200-020	Screw M2×5(S Tapping Tams)
O	S9-182-000-000	Screw M2×6(C Tapping)
P	S9-999-700-070	W1.8×4×0.5(HL Cut)
Q	S9-999-600-090	W2.3×3.8×0.5(HL)
R	S9-999-600-080	W2.1×3.5×0.5(HL)



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q, TY
	4-1	*S1-880-015-010	MAIN CHASSIS ASSY		1
	4-2	*S1-829-100-010	PACK SPRING		1
	4-3	*S1-880-090-090	FL METAL ASSY(R)		1
	4-4	*S1-880-040-040	P ARM(R) SPRING		1
	4-5	S1-880-043-020	PINCH ROLLER ARM(R) ASSY		1
	4-6	*S1-880-020-100	PANEL COLLAR		1
	4-7	*S1-865-020-280	CHP LEVER COLLAR		2
	4-8	*S1-880-020-060	CHP LEVER		1
	4-9	*S1-880-040-050	PINCH ROLLER SPRING		1
	4-10	---	WIRE CLAMP		1
	4-11	*S1-880-020-160	PANEL SPRING PLATE		1
	4-12	*S1-865-023-060	HEAD BASE ASSY		1
	4-13	*S1-865-020-600	CLAMP SPRING		1
	4-14	*S1-865-090-610	SPACER		1
	4-15	*S1-880-020-040	RC SPRING		1
	4-16	*S1-880-020-010	HEAD PANEL(A)		1
	4-17	*S1-880-020-050	PANEL SPRING		1
	4-18	*S1-880-025-010	HEAD PANEL(B) ASSY		1
	4-19	*S1-880-530-020	SWITCH PROTECTOR		1
	4-20	S1-880-043-010	PINCH ROLLER ARM(F) ASSY		1
	4-21	*S1-880-040-030	P ARM(F) SPRING		1
	4-22	*S1-880-090-080	FL METAL ASSY		1
	4-23	S1-880-053-020	T REEL ASSY(R)		1
	4-24	S1-880-053-060	T REEL ASSY(F)		1
	4-25	*S1-880-050-220	B.T SPRING(R)		2
	4-26	*S1-880-050-080	FF GEAR		1
	4-27	*S1-880-210-060	PLUNGER HOLDER		2
	4-28	*S1-880-055-010	REEL BASE ASSY		1
	4-29	*S1-880-050-170	FR TRIGGER ARM SPRING		1
	4-30	*S1-880-050-150	RF TRIGGER ARM		1
	4-31	S1-880-070-070	RF BELT		1
	4-32	*S1-880-073-010	RF CLUTCH ASSY		1
	4-33	*S1-880-210-110	PK LEVER SPRING		1
	4-34	*S1-880-215-020	P KICK LEVER ASSY		1
	4-35	*S1-880-050-180	TG ARM(F) SPRING		1
	4-36	*S1-880-055-020	T GEAR ARM(F) ASSY		1
	4-37	*S1-880-050-140	T GEAR		2
	4-38	S1-880-093-010	FLYWHEEL(F) ASSY		1
	4-39	S1-880-090-100	MAIN BELT		1
	4-40	S1-880-093-020	FLYWHEEL(R) ASSY		1
	4-41	*S1-880-210-160	RF CAM GEAR		1
	4-42	*S1-880-210-150	M GEAR		1
	4-43	*S1-880-010-060	M TRIGGER ARM SPRING		1
	4-44	*S1-880-210-030	M TRIGGER ARM		1
	4-45	*S1-880-020-180	SHIELD PLATE		1
	4-46	*S1-880-050-190	TG ARM(R) SPRING		1
	4-47	*S1-880-055-030	T GEAR ARM(R) ASSY		1
	4-48	*S1-880-215-010	CH SLIDE LEVER ASSY		1
	4-49	*S1-880-210-080	CH SLIDE LEVER SPRING		1
	4-50	*S1-851-140-180	MOTOR COLLAR SCREW		3
	4-51	*S1-821-120-660	MOTOR RUBBER		3
	4-52	*S1-880-090-200	MAT		1
	4-53	*S1-880-090-110	MOTOR BRACKET		1
	4-54	*S1-880-090-320	MOTOR PULLEY		1

■ SPEAKER LIST

(SX–77)

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q, TY
	1	*83-160-029-010	PANEL G,WOOFER		1
	2	*83-106-022-010	PANEL G,TWEETER		1
	3	*83-315-004-010	PANEL S,TWEETER		1
	4	*83-315-003-010	FRONT GRILL ASSY		1
	5	83-315-601-010	WOOFER,SPEAKER		1
	6	83-308-603-010	TWEETER,SPEAKER		1
	7	81-654-605-010	TWEETER,CERAMIC		1
	8	*83-082-041-010	CORD BUSHING		1
	9	*83-096-614-010	SPEAKER CORD		1

(SX–740)

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q, TY
	1	*83-160-029-010	PANEL G,WOOFER		1
	2	*83-106-022-010	PANEL G,TWEETER		1
	3	*83-315-004-010	PANEL S,TWEETER		1
	4	*83-315-013-010	FRONT GRILL ASSY,740		1
	5	83-315-607-010	WOOFER,SPEAKER		1
	6	83-308-603-010	TWEETER,SPEAKER		1
	7	81-654-605-010	TWEETER,CERAMIC		1
	8	*83-082-041-010	CORD BUSHING		1
	9	*83-096-614-010	SPEAKER CORD		1

■ ACCESSORIES/PACKAGE LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q, TY
	1	*81-653-904-019	INSTRUCTION BOOKLET(U,E,K,G,Z)	*	1
	2	*81-653-905-018	INSTRUCTION BOOKLET G(U,E,K,G,Z)	*	1
	3	*81-653-906-018	INSTRUCTION BOOKLET(740K)	*	1
	4	*81-686-003-019	RC-T77YBN(G)		1
	5	*81-686-018-019	RC-T77AYBN(U,E,K,Z)		1
	6	*81-686-022-019	RC-T740AYBN(740K)		1
	7	*81-653-647-010	AM-LOOP ANT(6T) CON(E,K,740K)	*	1
	8	*81-653-645-010	AM-LOOP ANT(6T) NC(U,G,Z)	*	1
	9	*81-748-632-010	FM FEEDER ANT N(U,E,K,G,740K)		1